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(HASH-TH-05342) THIRD SPACE SHUTTLE MISSION  
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National Aeronautics and Space Administration

Space Transportation Systems

Public Affairs Plan

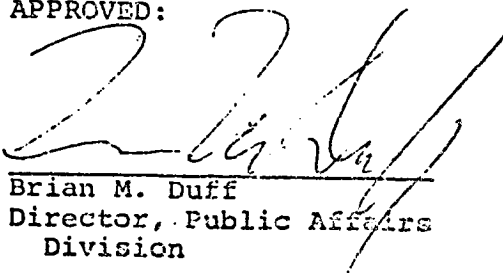
Third Space Shuttle Mission

STS-3

March 1982

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APPROVED:



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## PURPOSE

The purpose of this document is to provide a comprehensive, Agency-wide implementation plan for all public affairs activities associated with STS-3, the third Space Shuttle orbital flight test.

## SITUATION

The final phase of Space Shuttle development continues with the third orbital flight test (STS-3). The Space Shuttle will be launched from the Kennedy Space Center in Florida, be controlled while in flight from the Johnson Space Center in Texas and will land at the Dryden Flight Research Facility in California.

The STS-3 mission will be the second time that the Remote Manipulator System will be flown along with the second scientific payload, OSS-1. (See Appendix A, the Science Payload Operations Plan.)

The third Shuttle flight will require, as with the first two missions, extensive and complex public affairs activities involving new procedures and activities. Public affairs operations will be conducted simultaneously at four widely separated locations, with major guest operations required at launch and landing sites at opposite ends of the country within a seven day period.

It has been recognized in the planning process that public affairs activities for early Shuttle flights cannot be supported solely by the NASA Centers directly involved (JSC, MSFC, KSC, DFRF, and ARC). Shuttle public affairs must be viewed as an agency-wide responsibility with participation by all Centers

## POLICY

The planning in this document is based upon policy set forth in the Space Act of 1958, which requires that NASA "provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof..." as a function of the Administration.

In carrying out this basic dissemination policy, the following principles will apply:

- o Information will be released by every practicable and appropriate means of communication consistent with the prerequisites of veracity, authenticity and technical accuracy.

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- Information will be released without protective arrangement or any prior understanding regarding exclusive rights in authorship or publication in any form.
- Information will be released in real time, on the record, for attribution, without delay for any purpose other than verification.
- Information will not be withheld to protect the government or any individual from criticism or embarrassment.
- Information will be withheld when disclosure would adversely affect national security, infringe the provisions of the Privacy Act or violate NASA Management Instruction 8610.xx regarding private voice communication from the crew while in flight.

#### POLICY/PLANNING ORGANIZATION

The STS-3 Public Affairs Policy/Planning Organization consists of a Steering Committee composed of the PAO for the Office of Space Transportation Systems; the KSC, JSC, MSFC, DFRF, and ARC PAO's; HQ Chief, Public Services and Resources Manager; and chaired by the Deputy Director, HQ Public Affairs, five Working Groups composed of Headquarters and Center Public Affairs personnel complete the organization. (See Appendix B for detailed organization).

#### OPERATIONAL ORGANIZATION

The Director, Public Affairs Division, NASA Headquarters, is responsible for overall NASA Public Affairs and the execution of the STS-3 Public Affairs Plan.

The Deputy Director, Public Affairs Division, assists the Director and assumes full authority for the execution of this plan in the absence of the Director.

A staff of two Institutional Chiefs assists the Director of Public Affairs in the management of Media Services and Public Services.

The Public Affairs Officer, Office of Space Transportation Systems, David Garrett, is designated STS-3 Operations Manager with responsibility for the implementation of this plan.

The following NASA Headquarters personnel are assigned to STS-3 functional responsibilities:

News Operations	-	Miles Waggoner
Photography	-	Les Gaver
Telecommunications	-	James Kukowski
Protocol	-	Gene Marianetti
Education	-	Bill Nixon

The following Public Affairs Officers are responsible for STS-3 operations at their respective Centers:

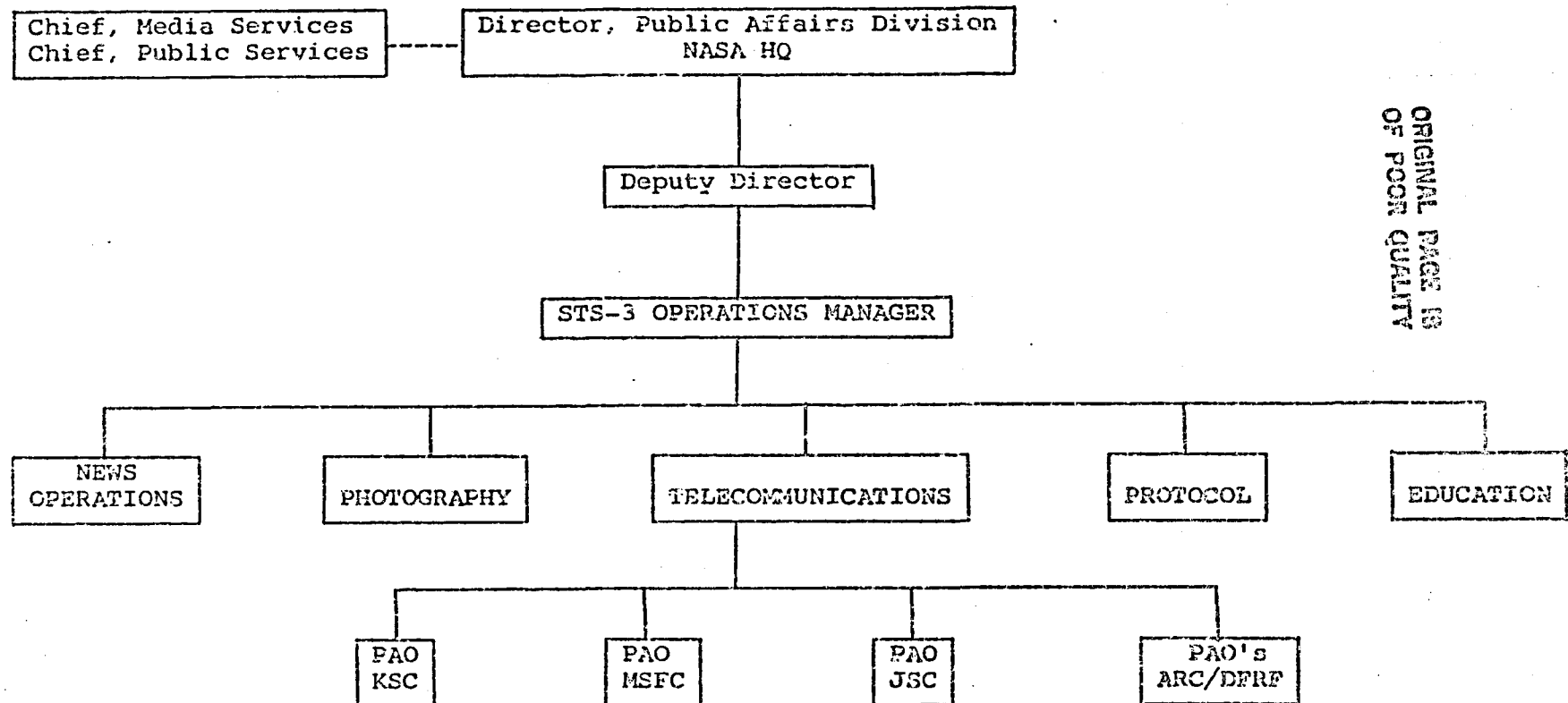
KSC	-	Charles Hollinshead
MSFC	-	John Taylor
JSC	-	Hal Stall
DFRF	-	Ralph Jackson

(See next page for organization chart)

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STS-3 PUBLIC AFFAIRS  
OPERATIONAL ORGANIZATION

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#### PLAN ORGANIZATION

This plan is organized into five major sections: News Operations, Photography, Telecommunications, Protocol, and Education. As with any complex operation, the sections are interrelated and contain numerous cross references.

1.0

NEWS OPERATIONS

1.1 FOREWORD

NASA's Public Affairs Division will provide to the news media to the fullest extent possible in real time all information and services regarding the prelaunch, launch, flight, landing and immediate postlaunch activities of the third Shuttle mission, Space Transportation System 3 (STS-3). This will include historical background, hardware and mission events.

1.2

IMPLEMENTATION

STS-3 news centers will be established at Kennedy Space Center, Fla.; Johnson Space Center, Houston, and the Dryden Flight Research Facility, Edwards, Calif. Arrangements will be made for a news center at White Sands Missile Range, N.M., if the need arises.

Kennedy will be the chief point of contact for information for the launch, Johnson for the flight, and Dryden for landing. Marshall will be a major participant through representatives at the other centers. The third mission is expected to be longer than the first two, scheduled to last seven days. It is therefore expected that attendance will rise at JSC, which manages the flight.

The STS-3 news centers at Kennedy, Johnson, and Dryden will provide the following services:

- an accreditation desk to check the credentials of media related attendees and to issue identifying badges;
- query desks to answer mission related questions and to provide all pertinent information and support to accredited media;
- post bulletins and make announcements;
- hold press briefings;
- arrange interviews and tours;
- provide to the media transcripts of briefings, mission commentary and air-to-ground as available;
- distribute photographs and establish TV services. (See photo section and telecommunications section).
- The Shuttle News Reference book issued prior to the launch of STS-1 provides generic information regarding the Space Transportation System, and press kits will be published to provide information about each activity. News references will be issued at the news centers only on request.

--A news media handbook will be compiled and distributed to the press approximately 30 days prior to STS-3 by all centers.

A communications system now connects the news centers that enables them to share in real time, as much as possible, all information regarding the mission, including an up-to-date accreditation list, mission activity, and an efficient coordination of news-oriented activities. The system consists of communicating word processors, a dedicated public affairs coordination phone line linking the involved centers and Headquarters (see also the telecommunications section); and a copy facsimile network.

Key to the functioning of the information system is a network of word processors and communications lines linking the involved centers, Headquarters, and a central computer facility at Johnson Space Center dedicated to public affairs.

All participating installations will have access to the central computer which will contain all pertinent information, both historical and that which develops as the mission progresses.

The computer will also handle press accreditations, TV scheduling, guest operations, transcripts, and general communications.

All status reports will be entered into the Word/One system as soon as they are written and approved. The status reports will follow a rigid schedule: Prelaunch, Kennedy Space Center — 9:00 a.m. and 4:00 p.m., EST; inflight, Johnson Space Center — 10:00 a.m., CST, and post-landing, Dryden Flight Research Center — Noon, PST. The availability of status reports will be announced promptly on the coord line. Similarly, all TV schedules will be entered as soon as available into the Word/One system, their availability will be announced on the coord line, and they will be retrieved by all receiving centers and immediately released. The above procedure will be followed regarding all information developed at one center to be used by the others. The above described system represents a great resource for the sharing and simultaneous release of information at all centers and is of use only if these procedures are scrupulously followed.

Status reports will be Panafaxed to non-mission centers.

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1.2.1 Word processor and Panafax locations and phone numbers

CTR	STN	LOCATION	DIRECT	COMM.BACKUP
DFRC	1	PAO trailer	3-0128	805/258-6034
	2	News center	3-0735	
	3	Lancaster visitor center	3-0880	805/258-6131
	4	Lancaster visitor center	3-1334	805/942-5163
MSFC	1	Bldg 4200, Rm.101	3-5330	205/882-9544
	2	Bldg 4200, Rm.105	3-5616	
KSC	1	Press Site	3-3774	305/459-0574
	2	Press site	3-3879	
	3	Gate No. 2	3-5055	305/459-0720
HQ	1	Newsroom	3-2043	202/434-5523
	2	Protocol office	3-2271	
JSC	1	Bldg. 2, Rm. 136		713/480-5568
	2	Bldg. 2, Rm. 136	3-3071	713/480-5569
JSC	6	12 Word/One trunk lines	3-2900	713/480-5570
			thru 3-2909	thru 713/480-5573
WSMR	1	Newsroom Will be activated only if WSMR is used	3-1599	505/524-3000

PANAFAX NUMBERS  
INSTALLATION

FTS NUMBER

LOCATION

Ames Research Center	448-5653	Newsroom
	448-5957	Automatic
Dryden	984-8764	PAO trailer
Goddard	344-5009	Automatic
	344-8142	Public Information Office
Headquarters	472-2309	Newsroom
Johnson Space Center	525-3379	Stall -- automatic
	525-3914	Comm Center
JPL	792-3437	Communication Center
	792-6501	" "
	792-4537	Newsroom
Kennedy	823-2692	Newsroom
	823-3395	Hollinshead
	823-2217	Automatic
Langley Research Center	928-3800	Comm Center -- automatic
Lewis Research Center	294-6620	Comm Center
	294-6145	Comm Center
	294-5577	Automatic
Marshall Space Flt Center	872-2855	
NSIL	494-3017	
Wallops	928-5683	



1.3

ACCREDITATION

In order to serve a large number of bona fide news media with limited facilities, an accreditation procedure will be instituted. News media are defined as personnel involved in the gathering, writing, editing, and researching of articles for publications for sale or with controlled circulation, movies, radio and television and its technical production, and free-lance writers with contracts or acceptable evidence of their professional status. Non-editorial personnel (management, advertising, etc.) will not be accommodated at the working press facilities.

Requests for accreditation must be received on organization letterhead and signed by the assigning editor. Electronic media must supply the names of all technicians and their assignments. No blanket accreditation will be made for technical crews.

Any organization needing still pictures of the mission must have one representative register with the photo desk at the Kennedy Space Center or Dryden Flight Research Facility as soon as they arrive. Only one photo card will be issued to each organization. On site photos will be delivered only to organizations meeting deadlines; others will receive photos by mail.

College news media will be limited to two accreditations.

Philatelic publications must meet the criteria of general publications or be national publications of a recognized philatelic organization. They will be limited to one reporter and one photographer. The request must be on letterhead with a copy of the publication attached. Newsletters of local clubs will not be accepted. Conducting philatelic business, other than reporting, is not allowed.

No special provision for press dependents will be made, except at Kennedy (see page 11).

No one 16 years old or younger will be badged or allowed on the press site.

Abuse of the rules will result in the loss of press badges and press site privileges.

1.3.1 Accreditation procedures

Accreditation will be managed from Headquarters. A letter will be sent to the full public information mailing list at least 30 days before a firm launch date stating accreditation procedures and guidelines.

The accreditation letter will direct all replies to Headquarters, where a master list will be maintained. Centers receiving requests for accreditation will forward them to Headquarters. The master list will be maintained in the computer at Houston. The system used will allow random input of data and produce an up-to-date alphabetized list.

The list will be provided to the involved news centers on a weekly basis when accreditation begins and on a daily basis when the news centers open.

Five working days before launch, the accreditation management will move to the Kennedy Space Center and remain there through launch.

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Letters will be sent promptly acknowledging or denying accreditation requests. The acceptance letters will include information concerning news center operations, living accommodations and maps. Letters denying accreditation will state the reason for the denial.

New accreditation will be required for this mission and the succeeding OFT flight. Newsmen will be asked to indicate which center(s) they plan to attend.

1.4

#### BADGING

Admittance to the news centers and press sites will be by badge only. There will be four basic categories of media-related badges: working press, contractor public relations personnel, radio-TV technicians, and NASA public affairs. The electronic technicians' badges will be good only for the event and location for which they are issued.

Contractor badges will be limited to five for working public relations officers for prime contractors and two for subcontractors. None will be issued for guests.

1.5

#### NEWS REFERENCE

The Shuttle News Reference issued prior to STS-1 will serve throughout the orbital flight tests. It covers hardware, facilities, and organizational responsibilities.

Headquarters will determine the need for corrections and updates. These will be mailed with the accreditation letters and be available at the news centers.

1.6

#### PRESS KITS

A press kit will be released 20 working days prior to the third manned orbital flight test. The press kit will be mission specific and will contain an index, a mission profile, a description of launch preparation and major events as scheduled, flight data, principal mission personnel and crew biographies, payload information, and TV schedule, etc. Generic vehicle and hardware information will be confined to the News Reference.

Preparation of the press kit is the responsibility of the public affairs officer for Space Transportation Systems. Headquarters will produce, print and distribute 7,500 press kits for distribution to the accreditation list. Camera-ready copy will be provided to the mission centers. Preparation of the material will be assigned to the various centers as appropriate. For example, the Kennedy Space Center will provide the section on launch preparation; Johnson Space Center will prepare the mission profile, flight data, mission director and crew biographies; Dryden Flight Research Facility will cover landing preparations.

Real-time voice reports on the course of the mission will be provided to public affairs personnel and the news media by knowledgeable public information specialists from the start of launch countdown through orbiter safing at the end of the mission.

Depending on the mission phase, this commentary will range from periodic status reports to running accounts of mission operations. Prior to liftoff, commentary will be the only real time source of information on the conduct and progress of the countdown. After liftoff, commentary combined with air/ground communications will be the principal source of authoritative information about spacecraft maneuvers, systems status, crew activities, experiment operations and management actions.

The commentators will prepare for their STS-3 assignments with the flight control teams which simulate each phase of the mission in connection with training exercises for the crew and operational personnel.

Each commentator will become a knowledgeable source of official information, an expert thoroughly familiar with mission plans and procedures. During the flight, the role of the commentators will be to facilitate a continuing flow of information to the media, in real time, as the flight progresses. The commentators will provide a service to the media, at the level of detail that that requires, but they will not attempt to develop a narrative description and explanation of mission events suitable for general public audiences which are completely unfamiliar with the flight plan.

Real-time release of all communication between flight controllers and the crew will take precedence over all other sources of information available to the commentators, so they will speak only when matters of substance require clarification, interpretation and explanation.

The style of the commentary will be deliberate, matter-of-fact and unemotional. Commentators will speak in the third person, using the active voice in simple declarative sentences devoid of unnecessary modifiers and dramatic locutions.

As they introduce, discuss and summarize mission events, commentators will tell what they know but they will not speculate or otherwise state their own opinions. The only judgments they will express or repeat will be those of individuals who have direct responsibility for the conduct of STS-3 operational activities.

Management of the production, coordination, distribution and release of mission commentary through the PAO Audio Network is discussed in detail in the telecommunications section of this plan.

## 1.7.1

COMMENTARY MONITOR

A commentary monitor will be established for each shift at JSC. This person will audit all mission commentary and provide the query desk and the other centers with information regarding mission activities. This information will be in the form of Mission Notes. The commentary monitor will also provide broadcast status reports for the Broadcast News Service (see 1.3 below).

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Mission Notes will be filed at least once every three hours. During high activity periods, they will be provided as often as needed. Mission Notes need not be highly formalized, rather notes of important or significant events that occur during air-to-ground conversations or from change of shift briefings.

Mission Notes must include the time and date they are submitted. They will be transmitted via Word/One to all centers as a priority item.

1.8

BROADCAST NEWS SERVICE

The NASA Broadcast News Service (BNS) will provide up-to-date mission status reports at frequent intervals during the STS-3 mission. The report will be in a format designed for radio and TV stations, but the reports can also be used by visitor information centers, planetariums, and private individuals.

BNS units will operate at KSC, JSC, and DFRF. KSC will be responsible for prelaunch reports, JSC for on orbit reports and DFRF for post-landing reports.

Broadcast reports will be filed at least every three hours during astronaut work periods and at least once during sleep periods.

Broadcast reports should be from 20 to 50 seconds long. They are to be written by a NASA PIO and may contain actualities from the NASA PAO release (air-to-ground or MOCR commentary).

All BNS status reports must contain the time they are filed and the time of the next scheduled report.

The BNS operator will also provide the Mission Notes (see 1.7.1) for use by PIOs at the news center query desks.

BNS reports will be transmitted via Word/One to all news centers as priority transmission.

1.9

POOL ARRANGEMENTS

A media pool will be formed at the discretion of the Director of Public Affairs or his designee to cover events that do not in his judgment permit full press corps coverage. The pool will consist of one representative from each segment of the media: television, radio, the wire services, the daily press, and periodicals. All material developed by the pool members will be freely available to all media.

1.10

NEWS CENTER OPERATIONS

Primary STS-3 News Centers will be established at the Kennedy Space Center, Johnson Space Center, and the Dryden Flight Research Facility. The purpose of the Shuttle news centers is to provide a timely and accurate flow of information about the mission to the news media.

To assure the above, each news center will provide a facility for holding press briefings. The facility will provide adequate room and seating for at least 200 press, a public address system, projectors and screens for movies, slides and view graphs. (Telecommunications will be provided as detailed in the telecommunications section).

Information officers assigned to the centers will support the mission as directed by the news center managers. Use of the occasion to promote non-mission interests must be cleared by the Director of Public Affairs.

Query desks will be established and manned to answer individual queries from the press. Computer terminals will be used in the news centers and will access a central computer file of information regarding the mission. The computer will contain background material, and will be updated as information is developed. The terminals will also link the participating centers and Headquarters.

Desk space will be provided for contractor representatives, who will man them full time and be fully responsive to media queries in their area of competence. Contractor representatives will restrict themselves to mission operations and will not use the newsroom to promote industry objectives not related to the mission. They will be subject to newsroom discipline.

The Department of Defense will also be given desk space which it will man full time and be fully responsive to media queries in its area of competence. The Defense desk will restrict itself to mission operations and will not be used to promote purely parochial objectives such as recruiting. The Defense representative will be subject to newsroom discipline.

Tour and interview desks will be established to arrange working press tours where this is necessary and desirable and to arrange interviews for the press with program officials.

A press working area will be furnished with tables.

Pay phones will be installed, and newsmen may arrange for private phones at their desks. Desks are assigned on a first-come, first-served basis. The procedures for this will be stated in the accreditation letter.

Monitors for the NASA audio and video networks will be installed in Headquarters and the centers. Provision for direct access is detailed in the telecommunications section.

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1.11 POSTFLIGHT NEWS OPERATIONS

1.11.1 Crew Egress from Orbiter

To be determined.

1.11.2 Landing + 3 Hours

The crew will not participate in the postlanding briefing at Dryden.

1.11.3 Landing + (TED) Hours

Crew arrival at Ellington Air Force Base. The JSC Director or his designee, and each of the crewmen should make brief statement at microphones. There will be photo coverage, but no Q & A. Crew time required is 15 minutes. Johnson Public Services Branch is responsible for transporting crewmen's families.

1.11.4 Landing + 3 to 7 Days

The crew news conference at Johnson will follow the management debriefing as soon as possible. Only the two crewmen will participate. They will describe the mission and narrate selected motion picture footage and slides before answering questions. Crew time required is 90 minutes. The conference will conclude with a 5-to-10-minute photo session and the crew will return to the debriefing schedule.

1.11.5 Landing + 5 days

Johnson Public Information Branch will draft a news release based on the five-day mission report. Quick reviews by all approving elements are required for timely release.

1.11.6 Landing + 30 Days

Johnson will draft a news release based on the final mission report. A copy of the full report will be available in each news center, and copies will be made available to major news organizations on request.

1.11.7 Landing + 10 to 30 Days

Any crew tour will probably occur during this period, following completion of debriefings. Tour plans normally originate at NASA Headquarters, State Department or the White House. Headquarters Public Affairs will be responsible for planning, coordination, staffing assignments, and news releases pertaining to tours and appearances during the immediate postflight period. Field centers will provide support as requested by Headquarters.

Following the special postmission appearance period established by Headquarters, the STS-3 crew appearance requests will be handled as standard astronaut appearance requests.

1.12 KENNEDY SPACE CENTER NEWS CENTER OPERATION

The news center will be located in a modernistic dome at the press site at Launch Complex 39. It will include query desks staffed by public affairs personnel from NASA Headquarters, Johnson, and Marshall and the Department of Defense. Two general query desks also will be manned during normal duty hours.

A contractor position will also be maintained at the query desk, primarily as a liaison point for the Joint Industry Press Center (JIPC) operated by NASA contractors on the western side of the press site.

Status reports will be read over the public address system twice daily or as otherwise deemed necessary, then printed and distributed and immediately put into Word/One for use by the other news centers. These centers will be alerted on the coord phone that the reports are available. Data sheets, press conferences notices and information on media activities will be posted, and a recorded phone message system provided.

Headquarters public affairs will coordinate assignments of public information personnel from other field centers to assist in the news center on a scheduled basis.

1.12.1 Hours of Operation

The Kennedy STS-3 News Center will open five days prior to the first launch. The countdown is scheduled to begin at T-5 days. The news center will open at 8 a.m. T-5 days and remain open 24 hours a day through the end of the mission. The news center will remain open as long as required on landing day. Normal 8 a.m. to 4:30 p.m. duty hours will be resumed the day after landing.

1.12.2 Preliminary Briefing Schedule

T-4 days - Countdown status.

T-3 days - Countdown status. STS-3 vehicle. Terminal countdown and mission rules.

T-2 days - Countdown status. STS-3 Flight plan. Payloads. Astronaut arrival coverage.

T-1 day - Countdown status. Pre-Launch press conference.

T+ one hour - Postlaunch press conference.

1.12.3 Accreditation

An accreditation office will be opened at the Pass and Identification Building at Gate 2 on Florida Route 3 at T-5 days. Sufficient personnel will be assigned to handle the accreditation workload. Hours will be from 8 a.m. to 5 p.m. until T-2 days; 8 a.m. to 8 a.m. on T-2 days. On T-1 day, the accreditation office will remain open overnight and stay open until launch time plus one hour.

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The press will be required to register at the accreditation office upon arrival and at that time will pick up their badges which will also provide unescorted access to the news press site and news center. The badge will also provide unescorted access to the Headquarters Building in the Industrial Area for the purpose of patronizing its cafeteria. The car passes which are required for the press site parking lot will also be issued at Gate 2.

A list of accredited media will be made and distributed daily.

Requests for launch viewing by media dependents must be made in writing. Only a limited number of media dependents can be accommodated with car passes to allow them access to a viewing site. To the best of their ability, accreditation personnel will attempt to schedule groups of dependents to ride together. As there will be no buses provided, dependents must agree to share cars and space in order to allow the maximum number of dependents to view the launch.

STS-3 mission badges will become valid at T-10 days. Media personnel requiring access to the Press site for mission purposes between T-10 days and the opening of the accreditation office at Gate 2 at T-5 days will be admitted to the center by machine pass and issued their STS-3 mission badges at the news center. The STS-3 mission badges will be valid from T-10 days to landing plus one day.

1.12.4

#### Commentary

During launch operations, commentary for the PAO Audio Network will be provided by KSC. The commentator will operate from the PAO Console in Firing Room 1 in the Launch Control center during test, simulation and launch activities. At other times the commentator will operate from positions established for that purpose at the Press Site and News Center.

The commentary will be scheduled as appropriate to the media interest in major events prior to the start of launch operations at T-5, and at that time will become the principal means of describing the sequences of operational activities leading to ignition and liftoff.

Commentary will be developed to incorporate voice communication with the crew for real-time release during critical launch operations.

In the event non-nominal situations involving the propulsion system require that the Huntsville Operations Support Center (HOSC) become a principal source of information about conditions affecting mission status, an MSFC commentator will activate a position in HOSC and provide supplementary reports to the JSC commentator as appropriate.

Mission commentary will transfer to the Johnson Space Center as the vehicle clears the tower.

Management of the production, coordination, distribution and release of the PAO Audio Network are discussed in detail in the telecommunications section of this plan.



1.12.5 Press Site Operations

The press site will be fully staffed at all times by KSC personnel. Contractor personnel will be on hand in sufficient time to prepare the television and audio equipment for the mission.

Arrangements for grandstand seats at the press site may be arranged by phone and assigned on a first-come basis. Each news organization is limited to one grandstand seat unless a legitimate need can be established for two, which will be the maximum.

Media may make arrangements with the telephone company to have phones installed at their own expense. A limited number of pay phones will be available behind the grandstand.

Press working space is also provided in the News Center dome. Assignment to a table area may be ordered by telephone. Availability is on a first-come basis. Again, each organization is limited to a single seat unless a legitimate need can be established for a maximum of two. Seating assignments are made for specific missions only and do not carry over from one mission to the next. Phones must be ordered from Southern Bell for the News Center area also. A limited number of pay, credit card and collect call phones are located along the lateral walls this working press area.

Media who want to connect tape recorders to the NASA commentary feed should also make arrangements with Southern Bell to bring such a feed to their seat in the grandstands or the working press area.

Television monitors will be provided in front of the grandstand to show the NASA PAO Video Release Network coverage.

1.12.6 Pool Positions

Public affairs has been assigned two seats in the Operations Management Room overlooking Firing Room 1. These seats are at consoles where operational command loops can be monitored. One seat is available for news media use if required. The other is for an escort.

1.12.7 Tours and Interviews

A tour and interview coordinator, under a Kennedy manager, will supervise a group of 25 escorts made up of personnel from other KSC directorates. The 25 escorts would be phased in as needed, beginning with just a few on call when the news center opens. All will be on duty by T-5 days.

Activities to be handled by this section include:

- Regularly scheduled press tours beginning T-10 days
- Interviews
- TV Crew Escorts
- Photographic press tours
- Press dependent tours (T-2 days)
- Sunrise/sunset press photographic sessions
- Pad damage press tour after launch
- Astronaut departure from crew quarters (pool of 75 — see photo section)
- Wildlife press tours at T-2 and T-1 days
- Deploy and recover remote cameras
- Dispatch film and tape for pool operations

The transportation coordinator will also work with this group.

For photo operations, distribution, etc., see photo plan.

1.12.8

Staffing

Chief, Information Operations

News Center Manager

— Query desks - as many as 14 query desk positions are available around an arced counter in the news center dome. Tentative staffing includes eight NASA public information officers (including representatives from NASA Headquarters and the Goddard, Marshall and Johnson field centers). Positions are also established for a Headquarters foreign press liaison PIO and representatives of the National Research Council of Canada and the European Space Agency.

— Two Department of Defense positions are available.

— A contractor public relations position is available, primarily as liaison point with the Joint Industry Press Center to be erected and operated by NASA contractors to the west of the press site.

- Three information officers to act as Commentary monitor and Broadcast News Service operator (one per shift).

- Technical liaison from Johnson, Marshall and Kennedy.

Clerical manager

- 15 clerical personnel to handle secretarial, executive offices, bullpen area, accreditation and reproduction coordination.

(Under the Photo Manager)

- Interviews/tours coordinator

- Dependents' coordinator

- 25 escorts

- Photo distribution

- Transportation representative (supplied by Transportation Office)

Overall management of press site logistical needs is handled by a press site manager/

Press site security is coordinated with a security manager assigned to the press site by the KSC Security Office.

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1.13 JOHNSON NEWS CENTER OPERATION

The STS-3 News Center will be located in Building 2. Services will include query and interview desks, contractor desks, and a Department of Defense desk. In addition, Johnson will provide mission commentary and transcripts of the commentary. These will be provided to Kennedy, Dryden, and Marshall.

A working area will be set aside for the news media adjacent to the news center. The working area will consist of ample tables, and media will have access to audio control switch boxes into which they can plug tape recorders. The working area will also have an adequate number of television units which will provide TV feeds from the spacecraft, when scheduled as well as the feed from the mission control center TV cameras. Table assignments will be on a first-come, first-served basis. Media seeking advance table assignments may contact the Johnson news center prior to mission time. Media will be required to make their own arrangements with the local telephone company for phone assignments.

1.13.1 Hours of Operation

The STS-3 News Center will be open 8:00 until 5:00 p.m. five days before launch until T-3. Hours will be expanded if news activity warrants. It will be open 24 hours a day from T-3 days through landing. Three-shift operations will end the day of landing.

1.13.2 Preliminary Briefing Schedule

T-30 - Final preflight press conference with prime crew plus related background briefings

T-0 through end of mission - Change of shift briefings will be held and others as warranted.

1.13.3 Accreditation

For those not receiving accreditation by mail, accrediting will be done in person at Johnson. A clerk will be assigned for this purpose as well as badging.

1.13.4 Tours and Interviews

One public affairs person will be assigned to handle interviews.

1.13.5 Commentary

After tower clearance, responsibility for providing mission commentary to the PAO Audio Network will transfer from KSC to the Johnson Space Center.

During the Flight Operations phase of the mission, the JSC commentator will operate from the PAO Console in the Mission Control Center.

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Commentary will be developed to incorporate all air/ground voice communications for real-time release except when major news briefings take precedence or when there is an operational requirement for private communication with the crew.

Air/ground communication not released real-time during major news briefings will be recorded and incorporated in the commentary immediately following those briefings.

The operational requirement for privacy during air/ground communication will be established by the Mission Director in accordance with the provisions of NMI (TBD) STO Voice Communications Policy, and NMI 8610.11, Control of Access to Operational Voice Communication Circuits. The planned exception to the real-time release of all air/ground communication will be revealed and explained by the commentator prior to the private conversation. Unless expressly precluded by the provisions of the NASA Management Issuances cited above, the commentator will provide a summary of the nature of the private conversation without undue delay after the conversation is concluded.

Under nominal conditions, responsibility for mission commentary, will remain with JSC through landing and rollout. During this end-of-mission period, the JSC commentator will be assisted as appropriate by the commentator at DFRC.

Under other than nominal conditions which require a return to the launch site abort and landing, responsibility for the commentary will remain with JSC through landing and rollout and then transfer to KSC after rollout and wheel stop.

Under other than nominal conditions which require a landing at Northrup Strip, responsibility for the commentary will remain at JSC. There will be no commentator at Northrup Strip.

Under nominal conditions which require a landing at Northrup Strip, responsibility for mission commentary will remain with JSC through landing and rollout, assisted by the commentator at NS, and then transfer to the commentator at NS after wheel stop.

Management of the production, coordination, distribution and release of mission commentary through the PAO Audio Network are discussed in detail in the telecommunications section of this plan.

1.13.6 Transcriptions

A verbatim transcript of broadcast release network will be produced by Johnson and distributed to Kennedy, Dryden, and Marshall as soon as mechanically possible. Transcripts will be edited only for technical accuracy (spelling, typos, etc). There will be no deletions, additions, comments or amendments.

Since the public affairs transcript is used primarily by news media operating on tight deadlines, it must be printed within two to four hours of its availability.

The transcript production staff will be sized to permit cycling a 15-minute air-ground/commentary tape through a first draft transcript, editing, final typing, final review, printing and delivery to Building 2 within two hours. During peak periods of air-to-ground, such as in high-activity stateside passes, transcript turnaround of up to four hours can be expected.

Change-of-shift briefings may often be given a transcription priority greater than nominal air-to-ground and commentary. Change-of-shift briefings will typically last about 45 minutes. Priority transcription will be completed within two hours. Routine transcription of change-of-shift briefings will be completed in four hours.

Beginning three days before launch, background briefings and press conferences will require transcription. Completed transcripts will be available about four hours after morning briefings and by noon of the following day for afternoon briefings.

A two-shift transcription operation will be required at T-3 days and a three-shift operation will be required from T-1 through end of mission. The final preflight astronaut news conference, about 30 days before launch, will be transcribed, as will the postflight crew press conference, that will take place within a week after flight.

A contractor will provide transcription typist who will use NBI word processors to prepare the transcriptions. Finished work will be entered into the Word/One system for distribution to the other news centers.

The shift supervisor will be responsible for overseeing the transcription operation. He will also decide priorities on transcription items.

1.13.7 Pool Positions

A pool may be formed for coverage from the Mission Operations Control Center and for simulations.

1.13.8 Staffing

Chief, Information Operations

News Center Manager (first shift)

News Center Manager (second shift)

- Query desks -- six information officers
- Interview desk -- one information officer
- Three information officers to act as commentary monitor -- Broadcast News Service operator (one per shift).
- Audio-visual coordinator - one public affairs person.

13.9 Mission Control Center

Mission commentary — Five public information officers; three assistant directors will be supplied by contractors.

Clerical section — Three secretaries will be assigned as news center assistants and one secretary will be assigned to the accreditation desk. Clerical support will come from other elements of the center. Transcript support will be contracted out.

14

DFRF NEWS CENTER OPERATIONS

The STS-3 News Center will be located at the Dryden Flight Research Facility, located on the Edwards AFB complex at Edwards, Calif. News operations will be located at four different sites: a news center, three press sites at the landing area, and an auditorium for press briefings.

The news center will house the query desk, photo services, contractor desks, and a Department of Defense desk.

The working press area will be located close to the news center and will contain tables for the press plus telephone trunk lines so that media may contract for telephone services. TV monitors with the audio release line will be located in this facility.

Two separate intercom lines will connect the press working area with the news center.

The auditorium will seat at least 200 news media and will contain the necessary facilities for monitoring all press conferences and briefings originating at the other NASA centers.

If required, the auditorium will be used for working press, as telephones are available. NASA audio and television release distribution will be made from the audio/television trailer located next to the auditorium.

1.14.1 Hours of Operation

Prior to launch, the news center will be manned normal working hours, 7:30 to 4:30 p.m. Hours will be expanded if warranted. At launch, all facilities will be in operation 6:00 a.m. to 6:00 p.m. until the night before landing, at which point it will remain open through landing. At landing plus one day, the facility will return to normal hours.

1.14.2 Accreditation

The accreditation desk will operate from T-5, 8:00 a.m. to 5:00 p.m. at the Antelope Valley Inn Convention Center. The accreditation desk will remain open all night before landing day, closing at two hours before landing.

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1.14.3 Preliminary Briefing Schedule

T+6 -- Landing operations briefing.  
T+7 -- Postlanding briefing.  
T+8 -- Orbiter status briefing.

1.14.4 Commentary

The public affairs console in the Dryden control room will be manned to provide commentary as required.

1.13.5 Press site Operations

Three press sites will be established on the edge of the lakebed at various locations. A token fence will be used to prevent news media from closer access. The areas are planned primarily for TV and camera press who will have to provide their own transportation. Limited telephone lines are available at this location. NASA audio release will be provided.

1.14.6 Staffing

News Center Manager

- Query desks - six public information officers.
- Interview Desk - one information officer
- Commentary monitor-Broadcast News Service - three public information officers
- Contractor Desk
- Defense Department Desk

1.15 WHITE SANDS MISSILE RANGE NEWS CENTER OPERATIONS

In the event of an announced end-of mission landing at the Northrup Strip, WSMR, a STS-3 News Center will be established in the U.S. Army White Sands Missile Range Public Affairs Office, Building 122. In comparison with other STS-3 news centers, facilities will be limited. Desks will be provided for query operations, photographic services, and for other PAO, contractor, and DOD representatives.

A press working area will be provided with 48 telephones available for press use. A small auditorium is adjacent to the news center and will be used for briefings. The NASA Audio and Video Release System will be available.

Viewing areas for TV and writing press will be established at Northrup Strip, which is about an hour's drive north of the WSMR Headquarters area, where the news center is located. Television equipment vans will be escorted to the Northrup Strip area. No other private vehicles will be permitted at Northrup Strip and all travel between the news center and the viewing site will be by shuttle bus.

Because of the remote nature of the Northrup Strip area, facilities will be severely limited, particularly with respect to communications. It is doubtful that more than a few telephone circuits will be available for press use.



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Separate areas for television and radio vans, photographers, press, distinguished guests and special guests will be delineated. All areas will have audio release commentary and monitors will display NASA video release in all areas except the photography platforms. Another area will accommodate contractor and institutional groups who will provide their own bus transportation. All areas will have access to portable comfort stations and drinking water.

Because of the remote nature and the limited access, no provision will be made for general public to view the landing at Northrup Strip. In the event of a Northrup Strip landing, arrangements will be made for the public to view the orbiter as it is being prepared for return to KSC.

1.15.1                    Hours of Operation

Prior to launch, the news center will be manned during normal working hours, 7:30 a.m. to 4:00 p.m. Hours will be expanded if news activity warrants. If Northrup Strip is designated as the end-of-mission landing site, the news center will be manned on a 24-hour basis beginning at T-1.

One week prior to launch, media may begin installing equipment at the viewing site and shuttle bus operations will begin. Frequency of shuttle bus service will be determined by need.

1.15.2                    Accreditation

Accreditation will be handled at the WSMR News Center beginning at T-3 if Northrup Strip has been designated as the EOM landing point.

1.15.3                    Preliminary Briefing Schedule

T-1 — Readiness briefing  
Other briefings will be scheduled as required and in coordination with JSC and KSC.

1.15.4                    Commentary

EOM commentary responsibilities will remain at JSC if EOM is at Northrup Strip. There will be no commentator at Northrup Strip in the event of a contingency landing. (See Telecommunications section of this plan.)

1.15.5                    Pool Arrangements

A press pool consisting of representatives from each segment of the media will be designated in the event of an off-nominal landing or other requirement.

1.15.6                    Staffing

A NASA public affairs officer will be assigned to manage public affairs operations at WSMR, if WSMR is activated.

In the event of a planned EOM landing at Northrup Strip, the WSMR news center will be manned by elements of the staff assigned to DFRF, with assistance from the U.S. Army Public Affairs Office. If the landing is an abort once around or other contingency landing at Northrup strip, staffing will be augmented as soon as possible from DFRF.

1.16

Accreditation Letter

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You have been accredited to cover the third Space Shuttle (STS-3) mission, now scheduled for launch no earlier than March 22, 1962. You should check for a firm date before making final arrangements to cover this event.

You must pick up badges at Gate 2 at the Kennedy Space Center, Fla., and at the news center at Johnson Space Center, Houston. Badges for the landing at Dryden Flight Research Facility must be picked up at the Visitor's Center, Antelope Valley Inn Convention Center, Lancaster, Calif., and at the Public Affairs Office, White Sands Missile Range, N.M.

No badges will be issued at Kennedy Space Center two hours prior to launch.

Please present this letter as proof of accreditation. Your accreditation will be on file. Accreditation is good for Kennedy Space Center, Johnson Space Center, Dryden Flight Research Facility, and White Sands Missile Range during the STS-2 mission.

Car passes will be necessary to get on the base at Dryden Flight Research Facility. They must be picked up at the Visitor's Center at the Antelope Valley Inn Convention Center, Lancaster, Calif. Parking passes will be issued at Gate 2 at Kennedy Space Center. Attached are a copy of the rules for covering the mission and a tentative schedule of briefings.

### RULES FOR COVERING THE SPACE MISSION

- NASA can make no travel or housing arrangements.
- Requests for newsroom space, telephone service and seating assignments should be directed to the center involved.
- Only working newsmen will be accredited at the news centers. Publishers and other news and advertising executives will not be accredited. They should apply to NASA's protocol office.
- Friends, dependents or relatives not covering the mission will not be accommodated. Special arrangements can be made only at the Kennedy news center, where dependents may view the launch at a special dependent's site.
- No one 16 years old or younger will be allowed at the press site under any circumstances. Violation of the rule will result in cancellation of press site privileges for the responsible parties.
- Philatelic publications must be publications for general sale or publications of national organizations. They are restricted to two representatives each. Newsletters of local clubs do not qualify. Representatives of philatelic organizations will not conduct other business while at the press site.
- College news media are limited to two accredited correspondents each for their newspaper, radio or TV station.
- You must present your letter of acceptance in person to obtain a news badge at the appropriate center. If you lose your accreditation letter, a record that it was issued will be available at each news center.
- Any organization needing still pictures of the mission must have one representative register with the photo office at the Kennedy Space Center or Dryden Flight Research Facility as soon as they arrive. Only one photo card will be issued to each organization. On site photos will be delivered only to organizations meeting deadlines; others will receive photos by mail.
- No alcoholic beverages are allowed on government property.
- Remember that launch dates are subject to change, and you should check as launch time gets nearer.

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# SCHEDULED PRESS BRIEFING

<u>Date &amp; Time (EST)</u>	<u>Briefing</u>	<u>Location</u>
-4 9:00 a.m.	Countdown Status	KSC
-3 9:00 a.m.	Countdown Status	KSC
10:30 a.m.	STS-3 Vehicle	KSC
1:30 p.m.	Terminal Countdown and Mission Rules	KSC
-2 9:00 a.m.	Countdown Status	KSC
10:30 a.m.	STS-3 Flight Plan	KSC
1:00 p.m.	Payloads	KSC
-1 9:00 a.m..	Countdown Status	KSC
1:30 a.m.	Prelaunch Press Conference	KSC
+ approximately one hour	Postlaunch Press Conference	KSC
through T+7	Flight Director Change of Shift Briefings	JSC
+6 2:00 p.m.	Landing Operations Briefing	DFRF
+7 (approximately 2 hours after landing)	Postlanding Briefing	DFRF
+8 2:00 p.m.	Orbiter Status Briefing	DFRF

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ote: Times are subject to adjustment

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2.0 PHOTOGRAPHY

2.1 FOREWORD

The Audio Visual Services Section of NASA's Public Affairs Division is responsible for providing a variety of photographic services for media and historical documentation during the third manned orbital flight test of the Space Shuttle Columbia (STS-3).

Services include still photographs and motion picture film of significant events, STS-3 premission photographic documentation and assistance to the news and information media before, during and after the mission.

Photographic documentation during STS-3 will be centered at the Kennedy Space Center, Fla., Johnson Space Center, Houston, Tex., Dryden Flight Research Facility, Edwards, Calif., and White Sands Missile Range, N. M. (if required).

2.2 PHOTOGRAPHIC SERVICES

Each center (KSC, JSC and DFRF) will provide the following services during the STS-3 mission:

- "Quick release" still black and white photos for print media, wire services, and selected NASA Centers.
- "Quick release" still color prints to press association pools for the print media, and selected NASA Centers.
- "Quick release" motion picture film for the TV/Film pool, if requested by media.
- Assistance to major media in camera site location at KSC and DFRF.
- Coordination of media pool operations when needed.
- Distribution of pre-mission black and white prints and color transparencies of STS-3 activities to media only.
- Distribution of pre-mission motion picture film of Space Shuttle activities to media.

2.3 PHOTOGRAPHIC DOCUMENTATION METHODS

Both still and motion picture cameras will be used to document STS-3 activities.

Two still formats will be used, 6x6 centimeter (2 1/4 square) and 35mm; and two motion picture formats, 16mm and 35mm (standard and high speed) color.

Hand-held, tracker-mounted, fixed-position, helicopter and aircraft-borne camera system will be deployed at critical sites to cover various mission phases. Remote start camera will be used where required. In addition to Public Affairs deployed cameras, engineering still and motion picture photography will be used to document certain events.

## 2.4 PHOTOGRAPHIC DOCUMENTATION RESPONSIBILITIES

### 2.4.1 KSC

At the Kennedy Space Center the PAO contractor, Technicolor Inc., will provide still and motion picture photographic services under the direction of Ed Harrison, KSC Public Affairs Audio Visual Chief. Assignments include preflight preparations, preflight astronaut activities, launch of the STS, launch control center, onsite viewing, offsite crowd, long range tracking and solid rocket booster recovery. Processing will be done on site by Technicolor.

### 2.4.2 JSC

Photographic services at the Johnson Space Center will be performed by the on-site contractor. Bill Robbins, JSC Public Affairs Audio Visual Chief, will supervise the JSC ground photographic activities.

Ground activities include still and motion picture coverage of mission control on a daily basis, still photography of TV transmissions from Columbia and other photo opportunities at JSC during the mission.

2.4.2.1 Orbital photography aboard the Columbia is the responsibility of the JSC Photographic Documentation Division. On-orbit photography will consist of 35mm still color 6x6cm still color and 16mm motion picture film. All onboard film (still and motion picture) will be taken from the orbiter cabin and flown immediately to JSC after the lakebed landing. No onboard film will be processed at DFRC. PAO will select still and motion picture footage for release at JSC on a priority basis. About six prints and 200 feet of film will be released with photo captions and film narrative. The film clip will be video taped for TV use.

### 2.4.3 DFRC

At Dryden Flight Research Facility, lakebed photography will be supplied by members of JSC Photo Documentation team/Air Force photographers.

Both motion picture and still photographic documentation will be acquired by two ARC photographers, of various ground activities such as public crowds, VIP site, TV crews, NASA activities, convoy, control room, etc.

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These teams will be supervised by Eugene Edmonds of Photographic Documentation Division. Color still, and motion picture processing will be done by the Edwards Air Force Base Photo Lab, DFRF Lab and JPL Lab. Coverage at Dryden will include approach and landing, crew egress, VIP and general public reactions and viewing areas, crew debriefing and post landing operations.

2.4.4 WSMR

In the event of an end of mission landing at the Northrup Strip, White Sands Missile Range, N.M., photography of approach and landing will be provided by JSC documentation photo crews. The U.S. Army Audio Visual Agency photo crews will provide assistance with off-Northrup strip photography.

A NASA PAO will be on-site at WSMR to supervise.

2.5 PRE-MISSION PHOTO ACTIVITIES

Shuttle Profile Series

A series of 10 single concept, color, sound, films have been distributed to the TV/FILM media. These will be available for purchase through:

Stock Film Library  
National Archives  
1411 S. Fern Street  
Arlington, Virginia 22202  
Telephone (703) 557-1114

Subjects: The Orbiter - 9 minutes

Mission and Payloads - 13 1/2 minutes

Ground Support - 8 minutes

Communications - 6 minutes

Propulsion - 6 minutes

EVA - 10 minutes

Thermal Protection System - 5 minutes

Economics of Shuttle - 8 minutes

Spacelab - 12 minutes

STS Launch Aborts - 5 minutes

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### Space Shuttle Documentaries

The following films are available for loan at NASA centers:

- #A "TDRSS" — 6 minutes, color, sound, covering the TDRSS communications concept and use.
- #B "Space Shuttle-Mission to the Future" — 27 minutes, 30 seconds, color. A broad view of the aims and benefits of the Space Transportation System.
- #C "STS-1 Post Flight Crew Briefing Film" — 17 minutes color, sound, actuality motion picture in which Astronauts Young and Crippen describe the STS-1 mission.
- #D "Space Shuttle, the Remarkable Flying Machine" — 28 minutes color, sound, a documentary of the first flight of Columbia.
- #E "A Remarkable Flying Machine" — 30 minutes, a documentary of the STS-1 Columbia, the first Shuttle flight.
- #F STS-2 Post Flight Crew Briefing Film — 15 min.

These films may be purchased by media through:

Stock Film Library  
National Archives  
1411 South Fern Street  
Arlington, Virginia 22202  
Telephone (703) 557-1114 (for additional information)

The following prelaunch silent film clips will be released to media:

- #1 Crew Personality - Commander
- #2 Crew Personality - Pilot
- #3 Pre-Training
- #4 Payload - OSS-1
- #5 Rollover/Rollout
- #6 Preparation for Launch

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2.6

#### SPECIAL CONSIDERATIONS LEARNED FROM STS-1 AND STS-2

##### TO BE IMPLEMENTED

1. On-board 16mm motion picture film stock should not be from the Apollo vintage stock. (The age of this stock shows in printing). Lense filters should be fitted to all on-board motion picture cameras. Motion picture camera frame rate must be 24 FPS or no less than 12 FPS.
2. Camera crews (Motion picture and still) will be prepared to cover both runways #17 and 23 at DFRC.
3. One of the backup chase aircraft, equipped with a rear seat motion picture camera, will pull into an outboard position with the orbiter on final approach and photograph it through touchdown.
4. To cover a second runway option, additional documentary coverage is required for approach and landing and post-landing activities. The EAFB Photographic section will be supplemented by additional personnel and equipment.

2.7

#### MEDIA POOL ACTIVITIES

Media pools will be formed for reasons of space limitations and safety. Only a limited number of the working press will be allowed. A "photographic pool" will consist of three still photographers (AP, UPI and a magazine photographer) and two motion picture photographers (16mm and 35/65mm). This group will accompany pool reporters selected by TV and the writing press. NASA still and motion picture teams will be a part of the pool contingent.

In addition, a pool arrangement will be made to man the press observation booth adjacent to the VIP viewing room at JSC Mission Control (see Public Information Section). Additional pools may be designated when warranted.

Pool activities currently designated are:

- Astronauts leaving crew quarters on morning of STS-3 launch day
- KSC firing room after a successful STS-3 launch
- JSC mission control center after successful completion of STS-3 mission.

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2.8

### ACCREDITATION AND BADGING

All news media will be accredited through Headquarters Public Information Services. Special "Photo Release" accreditation cards will be provided to news organizations to enable one representative to receive "quick-release" color and black and white photographs provided by NASA. "Photo Release" cards will be distributed by the News Center Photo News Offices at KSC, JSC, and DFRF. Accredited media, writers and photographers must reregister at the Photo News Desk at each center to qualify to receive NASA supplied photographs. Additional information on accreditation is in the Public Information Section.

All members of the media are required to be badged for admittance of News Centers, viewing sites and press pool participation. See the Public Information section for details.

2.9

### PHOTO OPERATIONS

Les Gaver, Chief, Audio Visual of NASA Headquarters is Manager of Photographic Operations for STS-3.

2.9.1

#### KSC

Ed Harrison, KSC Audio Visual Chief, will supervise KSC photo operations. The NASA contractor for photographic services is Technicolor, Inc. (TI). The TI staff will provide all technical support required to document the premission and launch phase of FRF and STS-3.

2.9.1.1

#### Photo Tours

1. Orientation tours will be conducted at 10:00 a.m. and 2:00 p.m., beginning T-10 days. The tours will originate from Press Site 39 and include KSC Shuttle facilities, historic launch sites, facilities in the industrial area and expendable launch sites on the Air Force Station. News media may sign up for the KSC Facility Tours at the Tours/Interviews Desk in the Audio/Visual Building.
2. At T-5 days, special tours of the Wildlife Refuge will be given by the Merritt Island Wildlife Refuge. KSC photo will provide one 29-passenger bus for transportation. The tours will begin at 11:00 a.m. and 1:00 p.m., will originate from Press Site 39. News media may sign up for the Wildlife Tour at the Tours/Interview Desk in the Audio/Visual Building.
3. At T-2 days, there will be a Press Dependent Tour of KSC. News media will sign their dependents up at the Tours and Interviews Counter, located in the Audio/Visual Building. They will be limited to two dependents. Dependents will be picked up at the Gate 2 Pass and ID parking lot. The tour will leave at 1:00 p.m.

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### 2.9.1.2

#### Photo Pool Positions

There are a number of prelaunch activities that will be covered on a pool basis. These include the astronaut departure from the O&C Building on launch day, the VAB roof in the event of a launch abort, a sunset/nighttime Shuttle photo opportunity, a post-launch pad damage tour and several remote photo sites which offer a different view of the Space Shuttle launch than can be obtained from the Complex 39 Press Site. News media will be required to sign up for these photo opportunities in advance. The sign up sheets will be located in the Photo Distribution Room beginning at T-2 days.

At T-2 days, a photographic pool with support from Technicolor personnel, will survey camera sites inside the pad perimeter fence. This pool will consist only of representatives with special photographic equipment that cannot operate remotely, but must be tied into the NASA photo sequencer. Representatives in this group must receive prior permission from the KSC Photo Department. Requests to be part of this pool should be submitted in writing 30 days prior to the STS-3 mission to Ed Harrison, PA-PIB, Kennedy Space Center, Fla. 32899. The pool will have one PIO and one security escort. Pad clearance will be worked with the pad site manager.

A survey tour for remote camera locations will be conducted at T-2 days. Photographers who will be setting up remote cameras to document the STS-2 launch will assemble at the Press Site at 12 noon. They will be transported into the field in three vans to survey remote camera locations located outside the pad perimeter fence. Each van will be accompanied by a PIO and security escort. Time required will be from about 12:30 p.m. to 5:00 p.m.

At T-1 day, photographers who will be setting up remote cameras will be at Press Site 39 no later than 12:00 noon. They will be transported out into the field in 3 vans. One PIO and one security escort will accompany each group. Each news organization will be allowed to set up the remote cameras in the field. Remote camera setup will last from approximately 12:30 p.m. to 5:30 p.m.

At T-1 day, the special photographic pool (see item #1) will install and load film into the cameras inside the perimeter fence. Pad clearance will be arranged for the same time Technicolor personnel enter the pad to set up KSC documentary photography. the group will be under PIO and security escort.

At T-1 day, a 40 person photographic pool (must sign up for in advance) will be escorted to the VAB roof. This television network/wire services/national magazine pool will set up camera locations on the northwest corner of the VAB to cover the Shuttle landing in the event of a return-to-launch-site. After the equipment is set up, the pool will leave the VAB roof. The equipment will be left unattended during launch. The pool will be held on the 34th level of the VAB during launch but will not be carried up to the roof until after the Shuttle has cleared the launch tower.

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At T-1 day, at approximately T-14 hours in the launch countdown, photographers who wish to document the move of the Rotating Service Structure (must sign up for in advance) back to its park position will meet at Press Site 39. The photographers will remain at that site through RSS retraction, sunset and until the xenon lights are turned on at the pad. Pictures will be taken from a camera site to be selected between UCS 12 and UCS 7. Five buses will be used to transport the group. Each bus will have one PIO and one security escort.

On the day of launch, there will be a photo opportunity for a press pool of 75 people to cover to departure of the astronauts from the O&C Building (must sign up for in advance).

The 75-member pool will be transported from the press site to the O&C building in two 45-passenger buses. They will be permitted to set up their cameras outside the roped-off area surrounding the departure ramp. The roped-off area will be no closer than 30 meters from the departure area.

Technicolor will light the O&C departure area.

Photographers and television crews will be dispatched to several photo sites for coverage of the launch (must be signed up for in advance). These are:

- a. Complex 34 - pool of 50 (press use own transportation)
- b. FCA Van Site - pool of 35 (45-passenger bus)
- c. Fire Training Area - pool of 35 (press use own transportation)

The 40-member VAB-roof pool (must sign up for in advance) will be escorted from the press site to the VAB in a 45-passenger bus. They will remain on the 34th level of the VAB during launch.

Two 45-passenger buses will transport press (must sign up for in advance) around the pad perimeter road at approximately T+5 hours - or whenever the pad is open for normal activities - for photos of pad damage. Access into the pad for this activity will be coordinated with the pad site manager.

#### 2.9.1.3

##### KSC Photo Processing

1. Contingent on getting into the pad after launch, Technicolor will have three or four views of 8x10 black and white launch photos available about T+4 hours.
2. Technicolor will also have available 8x10 black and white prints of 10 views showing astronauts eating breakfast, suiting up, and departing the O&C Building, at about T+4 hours.
3. Color photos of those same views will be available between T+4-6 hours.

Special note: Any artists commissioned by NASA to document the Space Shuttle flight will be included in all pool activities surrounding the STS-3 mission.

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2.9.2 JSC

Bill Robbins, JSC Audio Visual Coordinator will supervise JSC PAO photo operations. The contractor (Technicolor, Inc.) will staff the photo office. Prime photographers Andrew Patnesky (still) and Charles Turner (motion picture) will provide required photo coverage at JSC.

2.9.3 DFRF

Photographic services at DFRF (except lakebed photography) will be provided by the contractor-operated DFRF Photo Lab, under the supervision of Larry Montoya, DFRF, and by the Edwards Air Force Base Photo Lab.

Processing will be done by the EAFB Photo Lab, the DFRF Photo Lab and the JPL Photo Lab.

The DFRF Photo Lab, contractor will staff the Photo News Office at the DFRF News Center.

Lakebed photography will be supplied by members of the JSC Photographic Documentation Division and Air Force Photographers.

2.9.4 White Sands/Northrup Strip

In the event of an end of mission landing at White Sands/Northrup Strip, with sufficient advance notice, a Photo News Office will be established at White Sands in the News Center. Personnel from DFRF will staff. Services to the media will be substantially the same as at DFRF.

JSC Photographic Documentation Division will provide lakebed photo services to be used by Public Affairs. Additional photographic services will be provided by the U.S. Army Signal Corps Photo Lab at the White Sands Missile Range, under contract to NASA.

2.10 PROCESSING AND DISTRIBUTION

All film used for public affairs purposes will be processed at the center where it is shot. On orbit photography will be processed at JSC after retrieval from the Columbia.

All PIO still color and black and white film will be processed rapidly for "quick release" to the media at KSC, JSC, DFRF and WSMR, if required. Black and white prints, with captions, will be available for media distribution in about four hours after retrieval. Two captioned black and white and color prints will be shipped as soon as possible to HQ, JSC, KSC, MSFC, and DFRF.

Original still negatives will be delivered to NASA HQ Audio Visual. Duplicate negatives will be sent to field center photo offices within seven working days.

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Designated motion picture film in a 16mm format will be quick processed at launch and landing for distribution to the TV/Film pool at KSC and DFRF. 16mm prelaunch and other launch footage will be processed at KSC and DFRF on a priority basis and prints made available to HQ, JSC and MSFC in five to seven working days. All 35mm film footage will be shipped directly to NASA HQ Audio Visual for processing.

2.11

#### STS-3 DOCUMENTARY PHOTOGRAPHY BY THE NASA AMES RESEARCH CENTER PHOTO CREW

The purpose of the two Ames documentary photographers (Larry Sammons and Bob Carnahan) is to obtain off thebeat still and motion picture coverage of people events. That is the color of things going on with the public, the VIPs, the news media, etc. This photography will be concentrated around the Dryden Facility. They will be looking for interesting concentrations of people or interesting activities. They will photograph the reactions of people at landing, not the landing. They will cover the activity of the STS-3 crew when they interface with the VIPs and the media. The motion picture coverage is to be used as "cut" material and therefore need not be a complete sequence. The still pictures are for general historical documentation and possible immediate news release.

One day prior to landing a special photo session will be set up in the control room specifically for this photo team.

On landing day, prior to landing the photographers will document the crowd activities, the network TV crews, NASA ground support crews, security and any other activity of interest. They will be alert for any special VIPs and as mentioned cover the interface of the STS-3 crew with the public, VIPs and media.

If possible the motion picture coverage will use sync sound at three set ups, the control room, the crowds at landing and the STS-3 crew ceremony.

NASA HQ Public Affairs will direct and coordinate the above activities.

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3.0 TELECOMMUNICATIONS

3.1 POLICY

All information about orbital flight test operational activities which becomes available to NASA Public Affairs during STS-3 will be released to the media in the same manner simultaneously at all STS News Center locations.

3.2 PLAN

Information about STS-3 orbital flight test activities will be disseminated in real time through Audio and Video Release Systems which constitute the telecommunications activities described in this section of the STS-3 Public Affairs Plan. These systems will provide an audio/video capability for collecting information from all STS operational locations at any one of them and processing it in real time for distribution to all STS News Centers, other NASA locations and elsewhere as appropriate. These systems will NOT provide audio or video production assistance to the media and will NOT respond to media requests for replays, editing, dubbing or other technical services not required for real-time system wide dissemination of information.

Public Affairs management of telecommunications activities will utilize special intercenter voice and data communication circuits to ensure effective Agency-wide planning and coordination.

3.3 AUDIO RELEASE SYSTEM DESCRIPTION

Technical facilities for originating real-time audio dissemination have been established at KSC, MSFC, JSC, and DFRF. These facilities will be interconnected by common carrier terrestrial and satellite networks to provide for the distribution and release of crew voice communication with the Launch Control and Mission Control Centers, Mission Status Reports and Commentary by NASA Public Information Officers (See 1.7, Page 1-6), and mission related briefings and news conferences. Subsystem components for release will include MISSION AUDIO, NASA SELECT AUDIO, and SELECTED AIR/GROUND. Internal routing of supporting commentary and media participation in multi-center briefings and news conferences on a fourth subsystem component, SUPPORT AUDIO, will not be released as a separate source of information.

MISSION AUDIO will be activated during the final hours of the launch countdown for dissemination of frequent reports by the NASA PAO Launch Commentator at KSC on the progress of the countdown. When Launch Control at KSC and Mission Control at JSC initiate voice communication with the crew on orbiter Air-to-Ground frequencies, MISSION AUDIO will alternate between PAO commentary and that Air-to-Ground voice communication as principal sources. At liftoff, communication between flight controllers and the crew will take precedence over all other sources of information available to mission commentators and they will speak only as

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matters of substance require clarification, interpretation and explanation. This procedure will continue throughout the flight and during landing and post landing operations at DFRF until after crew egress. At that time, NASA PAO commentary will begin to originate from DFRF. Voice communication on Air-to-Ground frequencies will be discontinued as a source of information for release on MISSION AUDIO. The PAO Commentators will describe crew egress, provide vehicle status reports and explain ground crew activities.

At no time during the mission will briefings or news conferences be routinely scheduled for dissemination as MISSION AUDIO.

NASA SELECT AUDIO will be activated whenever an STS mission related briefing or news conference requires multi-center interconnection to permit media participation from more than one location. It will also be activated as the audio path for all NASA PAO Video Release System activities. During briefings and news conferences, NASA SELECT AUDIO will disseminate the remarks, announcements and introductions by NASA PIO's, the presentations by briefing and news conference participants, the questions asked by newsmen at all STS News Centers, and the answers of the participants.

During Video Release transmissions of launch preparations, the launch countdown and launch, in-flight crew activities, the landing and post-landing takebed activities, NASA SELECT AUDIO will be the same as the PAO commentary with Air-to-Ground crew voice communication being distributed as MISSION AUDIO. However, because it will be the primary source of audio which accompanies live video transmissions from the spacecraft, NASA SELECT AUDIO will be the only circuit configured to correct the loss of lip-synch caused by satellite links or other processing delays.

SELECTED AIR/GROUND will be activated when Launch Control at KSC and Mission Control at JSC initiate voice communication with the crew in the orbiter. It will disseminate the primary voice loop chosen by the JSC CAPCOM for voice communication with the crew. In normal operation an Auto Mode configuration will access Air/Ground 1, Air/Ground 2 or Air/Ground UHF when selected by the CAPCOM. In the event of an Auto Mode failure, or in response to other PAO requirements, the JSC Audio Engineer may manually select one of the three circuits. SELECTED AIR/GROUND will remain active during all periods of voice communication until after the post-landing crew egress.

3.4

#### IMPLEMENTATION PLAN FOR MISSION AUDIO DISSEMINATION

MISSION AUDIO will originate through NASA facilities at KSC, JSC, MSFC, and DFRF.

Appropriate arrangements will be provided to enable accredited media representatives to listen to MISSION AUDIO in the NASA News Centers and Press Centers at those locations and Headquarters, and at other Centers on a more limited basis, during STS-3 Orbital Flight Test operations.

Access to MISSION AUDIO will be available as a commercial service through local telephone companies at NASA facilities and in nearby communities as follows:



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KSC - Southern Bell  
Local Representative  
PO Box 1270  
Cocoa, FL 32922  
305 452-9121

MSFC - South Central Bell  
Contact: David Drachlis  
Public Information Office  
Marshall Space Flight Center  
Marshall Space Flight Center, AL 35812  
205 453-0034

JSC - Southwestern Bell  
4888 Loop Central Drive  
Houston, TX 77031  
Attn: Ms. Jean Bryant 713 660-1021  
or  
Ms. Leda Hudgins 713 660-1025

DFRF - Pacific Telephone  
5500 Ming Avenue, Suite 140  
Bakersfield, CA 93309  
Attn: Kathy Johnson 805 397-9781  
or  
Willie White 805 397-1805

NASA Headquarters - Chesapeake & Potomac Telephone Company  
Washington, DC  
202 637-9820  
or Ask for Circuit #27PLNM-39793.  
202 637-9822

3.4.1 PRELAUNCH ACTIVITIES AND LAUNCH OPERATIONS PHASE

3.4.1.1 System Responsibility and Control

MISSION AUDIO will become operational at T-3 from KSC to provide countdown status reports and scheduled coverage of launch preparations and the launch. JSC, MSFC and DFRF will provide supporting PAO commentary to KSC from their respective locations as necessary.

The PAO Commentator at KSC will exercise control of the system during this phase. He will develop the information to be released, determine the selection of programming sequences and content, and coordinate his activities and decisions with PAO Commentators at other Centers as well as the STS-3 Operations Manager.

During peak periods of activity, the KSC Commentator will be assisted at the PAO Console in Launch Control by a Public Information Officer who will coordinate PAO communication with others and monitor launch operations voice circuits as assigned.

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The Audio/Visual Coordinator will be responsible for all technical activities associated with activating the MISSION AUDIO capability. He will be responsible for identifying, defining, coordinating and verifying the implementation of all user technical requirements in connection with PAO Audio Release System activities, at KSC, and will be the principal Public Affairs coordinator of contractor activities in the Audio Release System Control Room at the Press Site News Facility.

#### 3.4.1.2 Audio Facilities Equipment and Personnel

The Commentator and the PIO assisting him will operate from the PAO Console in the Launch Control Center during major test, simulation and launch activities. At other times they will work from positions established for that purpose at the Press Site News Center.

The Audio Release System Control Room at KSC will be located in the Press Site News Facility. The Control Room will be operated by RCA under the supervision of the Audio/Visual Coordinator.

Audio Release System facilities, equipment and personnel required at the Johnson Space Center, and the Dryden Flight Research Facility are described in subsequent sections of the Telecommunications plan.

Facilities and personnel at the Marshall Space Flight Center will include a PAO Commentator's position located in the Huntsville Operations Support Center (HOSC). This position will be on standby status during nominal prelaunch tests, launch preparations and launch operations. It will become fully operational during non-nominal situations involving the propulsion system when HOSC becomes a principal source of information about conditions which affect mission status.

The MSFC PAO Commentator will be provided with MISSION AUDIO, NASA SELECT AUDIO, PAO COORD, PAO CUE and PAO ENGINEERING. He will coordinate his activities with the Huntsville Operations Support Manager and will have access to the HOSC voice communications circuits at MSFC and with MSFC representatives located at KSC.

#### 3.4.1.3 Origination And Sources

The single point of program origin for MISSION AUDIO will be the Audio Release System Control Room in the JSC News Center. During this phase, KSC PAO commentary and eight other sources will be premixed at KSC and transmitted to JSC via SUPPORT AUDIO. At JSC, the KSC program material will be mixed with SELECTED AIR/GROUND, the SUPPORT AUDIO sources of PAO commentary from other Centers and audio following video sources for distribution and release as MISSION AUDIO.

KSC sources will include:

KSC PAO Commentator - LCC or News Center locations

Umbilical Intercom - Crew communication with White Room and KSC Launch Control

Pad Sound - Launch pad actuality during liftoff

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North Parkway VIP Site - VIP actuality

Pelican Plaza VIP Site - VIP actuality

Seagull Plaza VIP Site - VIP actuality

Schwartz Road VIP Site - VIP actuality

TV Audio - Audio from Video Release System camera locations and videotape recorders at KSC, selected and mixed at the Video System audio console

Playback Audio - Audio from Audio Release System recorders located in the KSC control room

Sources originating at other Centers will include:

SELECTED AIR/GROUND - Prime crew communication link with JSC MCC selected from A/G 1, A/G 2 and A/G UHF at JSC and fed to KSC via AT&T longline

JSC/DFRF Commentary - PAO Commentators, voice only or sequenced with other local audio sources, fed to KSC via AT&T longline

MSFC Commentary - PAO Commentators, voice only or sequenced with other local audio sources, fed to KSC via AT&T longline

RCA Satcom - Audio following video in lip synch when KSC is receiving video from other Centers via satellite

Lip Synch Audio - Audio following video in lip synch when KSC is receiving video from other Centers via terrestrial link

#### 3.4.1.4

##### Distribution

MISSION AUDIO will flow from JSC via AT&T longlines to all other NASA Centers and Headquarters for on-site distribution as required.

On-site distribution at KSC will include the Press Site News Center, the Press Viewing Site, the VIP Viewing Site, selected Public Viewing Sites and the Visitors Information Center.

Direct media access to MISSION AUDIO at the Press Viewing Site will be provided as follows:

Low Impedance - 100 XLR 600 ohm 0 db plugs

High Impedance - 50 RCA Phono jacks

Terminal Strips - 8 strips x 8 outputs each

Access in the Press Site News Center:

Terminal Strips - 8 strips x 6 outputs each

Access at the Broadcast Interface:

Distribution Amplifiers - 6DA's x 8 outputs each

The Broadcast Interface complex can also be configured to provide unmixed, uninterrupted feeds of other Audio Release System sources as required.

3.4.1.5

Communications

The KSC PAO Commentator and the PIO assisting him will have access to all Air/Ground and Umbilical communication with the crew as well as all Launch Control communication with the Test Conductor and Launch Director.

They will coordinate Audio Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC, DFRF, and MSFC Public Affairs Officers, the Audio/Visual Coordinator and other Headquarters and Center public affairs managers and supervisors via the PAO COORD circuit.

They will coordinate the sequencing of MISSION AUDIO dissemination with the MISSION AUDIO consoles at KSC and JSC, other PAO Commentators and the Video Release System via PAO CUE, and with the KSC Audio Release System Control Room via PAO ENGINEERING.

They will coordinate the sequencing of MISSION AUDIO dissemination with the MISSION AUDIO consoles at KSC and JSC, other PAO Commentators and the Video Release System via PAO CUE, and with the KSC Audio System Control Room via PAO ENGINEERING.

The principal media interface for KSC MISSION AUDIO operations will be the Audio/Visual Coordinator telephone 823-7819 (305 867-7819).

3.4.2

FLIGHT OPERATIONS PHASE

3.4.2.1

System Responsibility and Control

Responsibility for the PAO commentary will pass to JSC with the start of the roll maneuver. The PAO Commentators at other Centers will remain on duty at their consoles to provide supporting coverage if required until a nominal first orbit is assured.

The PAO Commentators on duty at JSC will exercise control of the system from handover through landing and crew egress. They will develop the information to be released, determine the selection of programming sequences and content, and coordinate their activities and decisions with PAO Commentators at other Centers as well as the Executive Producer of the Video Release System.

The JSC Commentators will be assisted at the PAO Console in Mission Control by A-V personnel who will coordinate PAO communication with others, monitor flight operations, and facilitate technical execution of MISSION AUDIO coverage plans.

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3.2.2

Audio Production Facilities and Personnel

The JSC Commentators and the A-V personnel assisting them will operate from the PAO Console in the Mission Operations Control Room (MOCR).

The Audio Release System Control Room at JSC will be located in the News Center. The PAO Console in the MOCR and the Audio Release System Control facility will be operated by A-V Service Corporation under the supervision and control of JSC Public Affairs.

3.4.2.3

Origination and Sources

MISSION AUDIO coverage during flight operations will utilize a total of 11 primary sources, seven of them originating at JSC:

JSC PAO Commentator - Commentator in Mission Control Center

Air/Ground #1 - Crew communication with JSC MCC

Air/Ground #2 - Crew communication with JSC MCC

Air/Ground UHF - Crew communication with JSC MCC

SELECTED AIR/GROUND - Prime crew communication with JSC MCC selected from A/G 1, A/G 2 and A/G UHF

Playback Audio - Audio from Audio Release System recorders in Bldg. 2

TV Audio - Audio from Video Release System videotape recorders at JSC, selected and mixed at the Video Release System audio console

Sources originating at other Centers will include:

KSC Commentary - PAO Commentator, voice only or sequenced with other local audio sources at KSC

DFRF Commentary - PAO Commentator, voice only or sequenced with other local audio sources at DFRF

RCA Satcom - Audio following video in lip synch when JSC is receiving video from the orbiter or other Centers via satellite

Lip Synch Audio - Audio following video in lip synch when JSC is receiving video from other Centers via terrestrial link

3.4.2.4

Distribution

As an output of the Audio Release System, MISSION AUDIO will flow from Building 2 to JSC CLS Board in Building 30, then via AT&T longlines to all other NASA Centers including GSFC and Headquarters for on-site distribution as required.

When required, it will also flow through Video Release System Control and

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the JSC Comm Control to the RCA Satcom Earth Station for distribution by commercial satellite relay to other Video Release System locations.

On-site distribution of PAO releases at JSC will include the News Center, the Press Center and the Visitors Information Center.

Direct media access to Audio Release System sources at the JSC News Center will include:

MISSION AUDIO - 40 Outputs

NASA SELECT AUDIO - 33 Outputs

SELECTED AIR/GROUND - 15 Outputs

3.4.2.5 Communications

The JSC PAO Commentators and the A-V personnel assisting them will have access to all Air/Ground communication with the crew as well as all Mission Operations Control Room communication with the Flight Director.

They will coordinate MISSION AUDIO activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC, DFRF and MSFC Public Affairs Officers and other Headquarters and Center public affairs managers and supervisors via the PAO COORD circuit.

They will coordinate the sequencing of MISSION AUDIO dissemination with the MISSION AUDIO consoles at JSC and KSC, other PAO Commentators and the Video Release System via PAO CUE and with the JSC Audio System Control Room via PAO ENGINEERING.

The principal media interface for JSC MISSION AUDIO operations will be the JSC Audio/Visual Production Manager, telephone 525-5111 (713 483-5111).

3.4.3 NOMINAL LANDING OPERATIONS - DFRF

3.4.3.1 System Responsibility and Control

Responsibility for the PAO commentary will remain with JSC through crew egress. During this period, the PAO Commentators at JSC will exercise control of MISSION AUDIO and will develop the information to be released, determine the selection of programming sequences and content, and coordinate their activities and decisions with PAO Commentators at other Centers as well as the Landing Operations Producer of the Video Release System.

A Commentator at DFRF will provide supporting coverage to JSC.

3.4.3.2 Audio Production Facilities and Personnel

The JSC Commentator will continue to operate from the PAO Console in the Mission Operations Control Room, assisted by A-V personnel. The Commentator at DFRF will operate from the PAO Console in the Flight Operations Control Room.

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Control of the MISSION AUDIO will be retained by JSC as configured for Flight Operations coverage.

The Audio Release System control facility at DFRF will be located in the Audio Control Facility Trailer adjacent to the Integrated Support Facility. It will be operated and installed by Taft Broadcasting under the supervision and control of JSC Public Affairs.

#### 3.4.3.3 Origination and Sources

MISSION AUDIO coverage during landing operations will utilize a total of 12 primary sources configured at JSC as for Flight Operations and three at DFRF as incorporated in DFRF PAO Commentary:

TV-01(J) - Actuality sound from Video Release System mobile unit situated at planned touchdown point

TV-03(J) - Actuality sound from Video Release System mobile unit situated near the approach end of the runway.

Playback Audio - Audio from Audio Release System Recorders in Audio Control Facility Trailer

#### 3.4.3.4 Distribution

The configuration of MISSION AUDIO will remain unchanged for distribution from JSC during Landing Operations.

On-site distribution at DFRF will include the News Center, the Press Center and the Press Center Annex, the Press Viewing Site and the VIP Viewing Sites.

Direct media access to Audio Release System Sources at DFRF will include:

MISSION AUDIO - 24 Outputs

NASA SELECT AUDIO - 16 Outputs

SELECTED AIR/GROUND - 16 Outputs

TV-01(J) Audio - 16 Outputs

TV-02(J) Audio - 16 Outputs

TV-03(J) Audio - 16 Outputs

#### 3.4.3.5 Communications

Access to and configuration and use of voice communication circuits at JSC will remain unchanged during landing operations.

The PAO Commentator at DFRF will have access to all Air/Ground communication with the crew, Mission Operations Control Room communication with the Flight Director, and Flight Operations Control communication with the

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OFT Manager.

The Commentator at DFRF will coordinate his MISSION AUDIO activities with the Director of Public Affairs, the SFS-3 Operations Manager, the JSC, KSC and MSFC Public Affairs Officers and other Headquarters and Center public affairs managers and supervisors via the PAO COORD circuit. He will coordinate the sequencing of MISSION AUDIO dissemination with the DFRF and JSC Audio Release System Control Rooms and other PAO Commentators and the Video Release System via PAO CUE.

The principal media interface regarding Audio Release System operations and services at JSC will continue to be the JSC Audio/Visual Production Manager. The interface at DFRF will be through the Taft Broadcasting Company Audio Supervisor.

#### 3.4.4 NOMINAL POST LANDING OPERATIONS - DFRF

##### 3.4.4.1 System Responsibility and Control

Responsibility for the MISSION AUDIO PAO commentary will transfer to DFRF after crew egress. Voice communication on Air-to-Ground frequencies will be discontinued as a source of information for release, but MISSION AUDIO will remain active for PAO commentary as appropriate until the orbiter is declared safe for towing from the lakebed. The PAO Commentator at DFRF will exercise control of MISSION AUDIO and will develop the information to be released, determine the schedule and selection of programming sequences and content, and coordinate his activities and decisions with PAO Commentators at other Centers as well as the Executive Producer of the Video Release System.

The Commentator at JSC will provide supporting coverage to DFRF as required.

##### 3.4.4.2 Audio Production Facilities and Personnel

The Commentator at DFRF will operate from the PAO Console in the Flight Operations Control Room.

The Audio Control Facility trailer will be the Audio Release System Control Room.

##### 3.4.4.3 Origination and Sources

During this phase, DFRF commentary and four other sources will be pre-mixed at DFRF and transmitted to JSC via SUPPORT AUDIO. At JSC, the DFRF program material will be mixed with SUPPORT AUDIO sources of PAO commentary and audio following video sources for distribution and release as MISSION AUDIO.

DFRF sources will include:

PAO Commentator - Commentator in DFRF Flight Operations Control Room

TV-MM(2) - Actuality sound from Video Release System mobile unit



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covering post landing activities

TV-02(J) - Actuality sound from Video Release System mobile unit covering post landing activities

TV-03(J) - Actuality sound from Video Release System mobile unit covering post landing activities

Playback Audio - Audio from Audio Release System Recorders in the Audio Control Facility

Sources originating at other Centers

JSC Commentary - PAO Commentator, voice only or mixed with other audio sources at JSC

SELECTED AIR/GROUND - Prime crew communication selected from A/G 1, A/G 2 and A/G UHF

RCA Satcom - Audio following video in lip synch when DFRF is receiving video from other Centers via satellite

3.4.4.4 Distribution

The configuration of the Audio Release System for MISSION AUDIO distribution at DFRF during landing operations will be retained during post landing operations, as will on-site distribution and direct media access.

3.4.4.5 Communications

Access to and configuration and use of voice communication circuits at DFRF during landing operations will be retained during post landing operations.

The Commentator at DFRF will coordinate Audio Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC Public Affairs Officer and other Headquarters and Center public affairs managers and supervisors on the PAO COORD circuit. He will coordinate the sequencing of MISSION AUDIO dissemination with the Audio Release System Control Rooms at JSC and DFRF, other PAO Commentators and the Video Release System on PAO CUE.

The principal media interface regarding Audio Release System operations and services will be through the Taft Broadcasting Company Audio Supervisor.

3.4.5 RETURN TO LAUNCH SITE ABORT AND LANDING

3.4.5.1 System Responsibility and Control

Responsibility for PAO Commentary will pass from KSC to JSC after SRB ignition. In the event of a return to the launch site abort and landing, the PAO Commentator on duty at JSC will continue to exercise control of the system through crew egress as described for Flight Operations and Landing Operations.

The KSC Commentator will continue to provide supporting coverage to JSC

from the LCC.

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3.4.5.2 Audio Production Facilities and Personnel

There will be no change in production facilities and personnel as described for JSC during nominal Flight Operations and Landing Operations; except to delete DFRF commentary from sources originating at other Centers.

Shuttle Landing Facility audio from KSC will be provided through Video Release System mobile units as repositioned for RTLS coverage and mixed with commentary on the KSC commentary, RCA Satcom and Lip Sync Audio circuits to JSC.

3.4.5.3 Origination and Sources

There will be no change in the configuration as described for nominal Flight Operations.

3.4.5.4 Distribution

Distribution at JSC and KSC as configured for nominal Flight Operations and Landing Operations will be retained. Distribution at DFRF as configured for nominal Launch Operations will be retained.

3.4.5.5 Communications

Communications will be configured and coordinated as described for nominal Flight Operations, with the retention of the nominal Launch Operations configuration at KSC.

3.4.6 RTLS POST LANDING OPERATIONS

3.4.6.1 System Responsibility and Control

Responsibility for MISSION AUDIO PAO commentary will return from JSC to KSC after crew egress. The PAO Commentator at KSC will exercise control of the system.

The Commentator at JSC will provide supporting coverage to KSC from Mission Control as required.

3.4.6.2 Audio Production Facilities and Personnel

The Commentator at KSC will continue to operate from the PAO Console in LCC while it remains active and then will move to his position at the Press Site. The Audio Release System Control Room will again be in the Press Site News Facility.

3.4.6.3 Origination and Sources

Post landing RTLS MISSION AUDIO coverage will incorporate three sources premixed at KSC and transmitted to JSC via SUPPORT AUDIO. At JSC the KSC program material will be mixed with other sources for distribution and release as MISSION AUDIO. KSC sources will include:

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**PAO Commentary - PAO Commentator**

TV Audio - Audio from Video Release System Camera locations as repositioned to the landing strip or assigned to other locations activated because of the RTLS abort, as well as audio from videotape recorders at KSC

Playback Audio - Audio from Audio Release System recorders located in the KSC control rooms

Sources originating at other Centers will include:

SELECTED AIR/GROUND - Prime crew communication link with JSC MCC

JSC Commentary - PAO Commentator, voice only or sequenced with other JSC sources

RCA Satcom - Audio following video in lip synch when KSC is receiving video from other Centers via satellite

Lip Synch Audio - Audio following video in lip synch when KSC is receiving video from other Centers via terrestrial link.

**3.4.6.4 Distribution**

Configured as for Launch Operations.

**3.4.6.5 Communications**

Configured as for Launch Operations.

**3.4.7 AOA LANDING OPERATIONS AT DFRF**

**3.4.7.1 System Responsibility and Control**

Responsibility for MISSION AUDIO PAO commentary will remain with JSC through landing and crew egress. The PAO Commentator at JSC will exercise control of the system. PAO Commentators at DFRF, MSFC and KSC will provide supporting commentary as required.

**3.4.7.2 Audio Production Facilities and Personnel**

JSC facilities and personnel will continue to operate as established for nominal Flight Operations. DFRF facilities and support personnel will be established at the time of launch as for a nominal landing.

**3.4.7.3 Origination and Sources**

JSC will continue to be the origin of MISSION AUDIO coverage, utilizing the sources established for the nominal Flight Operations phase with the addition of those planned at DFRF for a nominal landing.

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3.4.7.4 Distribution

Distribution will be configured as described for Flight Operations.

3.4.7.5 Communications

Communications will be configured as described for Flight Operations

3.4.8 E-O-M LANDING AND POST LANDING OPERATIONS AT NORTHRUP STRIP

3.4.8.1 System Responsibility and Control

Responsibility for MISSION AUDIO PAO commentary will remain with JSC through landing and crew egress, as described for nominal landing operations at DFRF.

The Commentator at Northrup Strip will provide supporting coverage to JSC from the landing site.

3.4.8.2 Audio Production Facilities and Personnel

The JSC Commentator will continue to operate from the PAO Console in the Mission Operations Control Room. The Commentator at NS will operate from the OFT Operations Center or the Control Tower.

The Audio System control facility at NS will be located in TV-05(J) and be operated by Taft Broadcasting under the supervision and control of JSC Public Affairs.

3.4.8.3 Origination and Sources

Origination of MISSION AUDIO coverage during landing operations at NS will utilize a total of 18 primary sources, 12 at JSC as configured for Flight Operations and four originating at NS:

PAO Commentator - NS Commentator located in the OFT Operations Center or the Control Tower

TV-03(J) - Actuality sound from Video Release System mobile unit situated at landing site

TV-05(J) - Actuality sound from Video Release System mobile unit situated at landing site

Playback Audio - Audio from Audio Release System recorders in TV-05(J)

3.4.8.4 Distribution

The configuration of MISSION AUDIO will remain unchanged for distribution from JSC during landing operations at NS.

On-site distribution at NS, will include the NASA News Center at White Sands Missile Range, the Landing Site Press Center, the Press Viewing Site and the

VIP Viewing Site.

Direct media access to MISSION AUDIO sources at NS will be limited by the availability of facilities and personnel at that site.

3.4.6.5 Communications

Access to and configuration and use of voice communication circuits at JSC will remain unchanged during landing operations at NS.

The PAO Commentator at NS will have access to SELECTED AIR/GROUND Flight Director, Purge, Cooling and Convey Commander.

The PAO Commentator at NS will coordinate the sequencing of MISSION AUDIO activities with the Commentator at JSC on PAO COORD and PAO CUE. He will coordinate with the Audio Release System control room in TV-25(J) on PAO CUE and PAO ENGINEERING.

The principal media interface regarding Audio Release System operations and services at JSC will continue to be the JSC Audio/Visual Production Manager.

3.4.9 ALTERNATE AOA LANDING AND POST LANDING OPERATIONS AT NS

3.4.9.1 System Responsibility and Control

Responsibility for MISSION AUDIO PAO commentary will remain with JSC. The PAO Commentator at JSC will exercise control of the system. There will be no PAO Commentator at the landing site.

3.4.9.2 Audio Production Facilities and Personnel

As established for Flight Operations phase.

3.4.9.3 Origination and Sources

As configured for Flight Operations. The only audio sources at NS will be microphones deployed by a Video Release System mobile unit.

3.4.9.4 Distribution

As described for Flight Operations phase.

3.4.9.5 Communications

As described for Flight Operations phase.

3.5 IMPLEMENTATION PLAN FOR NASA SELECT AUDIO DISSEMINATION

NASA SELECT AUDIO will originate through facilities at KSC, JSC, MSFC and DFRF.

The Center which has primary responsibility for the Public Affairs activity or event to be covered will be the prime Center during that period of dissemination.

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and will be responsible for the technical origin of NASA SELECT AUDIO, including the interfaces required for satellite and/or terrestrial distribution to the other locations. Program material from the other locations (PAO commentary, media questions during briefings and news conferences, etc.) will be routed to the prime Center for inclusion in NASA SELECT AUDIO via JSC as SUPPORT AUDIO.

Appropriate arrangements will be provided for accredited media representatives to listen to NASA SELECT AUDIO in STS-2 News Centers and Press Working Areas, and at other Centers on a more limited basis, during Orbital Flight Test operations.

Access to NASA SELECT will also be available as a commercial service, along with MISSION AUDIO, through the local telephone company contacts identified on page 3-3.

### 3.5.1 PRELAUNCH ACTIVITIES AND LAUNCH OPERATIONS PHASE

#### 3.5.1.1 System Responsibility and Control

NASA SELECT AUDIO will become operational at T-3 from KSC to provide daily countdown status briefings, scheduled press briefings, the prelaunch press conference, the post launch press conference, and PAO commentary associated with Video Release System coverage of countdown activities and launch operations.

All of the briefings and press conferences will be configured for multi-location participation, so that media representatives at MSFC, JSC and DFRF may question the participants at KSC.

The KSC Deputy Director of Public Affairs will be responsible for the conduct of briefings and news conferences when his Center is prime. He will develop the specific plans and formats for these activities, coordinate his planning with the STS-3 Operations Manager and KSC, MSFC, JSC and DFRF News Center Managers, and function as the moderator for the briefings and press conferences.

The Video Release System Launch Operations Producer will exercise control of NASA SELECT AUDIO during this phase. Based upon the KSC Deputy Director's specific plans for the briefings and press conferences, they will direct the technical implementation of NASA SELECT AUDIO requirements and coordinate their activities with the Audio/Visual Production Manager at JSC, the STS Information Specialist at MSFC, and the Public Information Radio-TV Specialist at DFRF.

During NASA SELECT AUDIO coverage of actual countdown and launch operations, the Video Release System Launch Operations Producer will determine the selection and content of programming sequences. He will coordinate his decisions and activities with PAO Commentators and Audio Release System Public Affairs and support contractor personnel at KSC, JSC, MSFC and DFRF as required.

The KSC Audio/Visual Coordinator will be responsible for all technical activities associated with activating the NASA SELECT AUDIO capability. He will be responsible for identifying, defining, coordinating and verifying the implementation of all user technical requirements in connection with PAO Audio Release System activities at KSC, and will be the principal Public Affairs coordinator of contractor activities in the Audio Release System Control Room at

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the Press Site News Facility.

### 3.5.1.2

#### Audio Facilities and Personnel

KSC briefings will be held in the Press Site News Facility Auditorium. Prelaunch and post launch press conferences will be held in the Press Viewing Site grandstand.

The NASA SELECT AUDIO console at KSC will be located in the Audio Release System Control Room in the Press Site News Facility. The Control Room will be operated by RCA under the supervision of the Audio/Visual Coordinator.

Media at JSC will participate from the News Center Briefing Room. The audio console, located in the News Center Audio Release System Control Room, will be operated by A-V Corporation under the supervision of the Audio/Visual Production Manager.

Media participants at MSFC will be located in the MSFC Mission News Center. The audio console will be located in the Briefing Room and operated for Public Affairs by Kentron International Incorporated.

At DRRF, the media will participate from the auditorium of the Integrated Support Facility. The audio console will be located in the Audio Control Facility Trailer adjacent to the ISF. Taft Broadcasting will operate Audio Release System facilities at DRRF under the management of the JSC Audio/Visual Production Manager.

When NASA SELECT AUDIO is configured to support Video Release System coverage of countdown activities and the launch, PAO Commentators and Audio Release System contractor personnel will operate as described under MISSION AUDIO.

### 3.5.1.3

#### Origination and Dissemination

During briefings and press conferences, audio from local KSC microphones will be mixed with SUPPORT AUDIO from other Centers which has been routed through the Audio Release System Control Room at JSC. The KSC composite will then be fed to the RCA Satcom Earth Station at MLA for uplink and dissemination via satellite.

The KSC composite will also be fed back to JSC on the return side of the SUPPORT AUDIO subsystem and processed through a muting amplifier and a 256 ms audio delay circuit in the JSC Audio Release System Control Room. It will then be distributed to other participating STS News Centers on the return side of the SUPPORT AUDIO subsystem for use in their briefings locations as a source of synchronous audio which is electronically controlled to reduce acoustical feedback in those locations.

When NASA SELECT AUDIO is configured for Video Release System dissemination of countdown activities and the launch, KSC PAO commentary and other local sources will be premixed at the KSC MISSION AUDIO console and transmitted to the JSC News Center Audio Release System control.

SELECTED AIR/GROUND and SUPPORT AUDIO sources of PAO

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commentary from other Centers will be integrated with the KSC composite at JSC for distribution via longlines as MISSION AUDIO. The NASA SELECT AUDIO console at KSC will relay the returning MISSION AUDIO from JSC to the RCA Satcom Earth Station at MILA for uplink and dissemination via satellite as NASA SELECT AUDIO.

On-site distribution at KSC will include the Press Site News Center and the Press Viewing Site. Direct media access will also be provided.

#### 3.5.1.4 Communications

During briefings and press conferences, the Video Release System Launch Operations Producer will relay information and instructions to the PAO Moderator at KSC and FIO's in participating locations at the other Centers on PAO CUE. He will coordinate Audio Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC, DFRF and MSFC Public Affairs Officers, the Audio/Visual Coordinator other Headquarters and Center public affairs managers and supervisors via the PAO COORD circuit.

He will coordinate the interface activities of the Audio and Video Release Systems with all other supporting organizations on the VIDEO OPS circuit.

When configured for Video Release System coverage of countdown activities and the launch, he will coordinate the sequencing of NASA SELECT AUDIO with PAO Commentators, and audio console operators at KSC and JSC on PAO CUE.

#### 3.5.2 FLIGHT OPERATIONS PHASE

##### 3.5.2.1 System Responsibility and Control

Responsibility for and control of NASA SELECT AUDIO will transfer to JSC for the first Video Release System real-time distribution of spacecraft television. Dissemination of that video and audio will be via AT&T circuits because the incoming spacecraft field sequential downlink through the MILA ground station will be relayed to JSC on the RCA Satcom satellite.

Responsibility and control will transfer back to KSC for the origination of the post launch press conference, then return to JSC until Flight Day 6, when it will alternate between JSC and DFRF to originate the pre-landing briefing that day from DFRF.

During the Flight Operations Phase, all change of shift briefings, special briefings and press conferences will be configured for multi-location participation, so that media representatives at KSC, JSC, MSFC and DFRF may question the principals.

The JSC Chief, Information Operations will have overall responsibility for the conduct of briefings and press conferences when his Center is prime. He will develop the specific plans and formats for these activities and coordinate his planning with the STS-3 Operations Manager and KSC, MSFC, JSC and DFRF News Center Managers. He will function as the PAO Moderator for press conferences. News Center Managers and PAO Commentators will function as PAO Moderators for special briefings and change of shift briefings.



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The Video Release System Flight Operations Producer will exercise control of NASA SELECT AUDIO during this phase. Based upon the Chief, Information Operations plans for press conferences and briefings, he will direct and coordinate the technical implementation of NASA SELECT AUDIO requirements at all locations.

When NASA SELECT AUDIO is configured to support Video Release System dissemination of in-flight activities, the Video Release System Flight Operations Producer will determine the selection and content of programming sequences based upon the STS-3 Photo/TV Checklist, Crew Activity Plan and other light Data File documentation as revised by real-time planning. He will coordinate his decisions and activities with PAO Commentators and Audio Release System Public Affairs and support contractor personnel at KSC, JSC, MSFC and DFRF as required.

The JSC Audio/Visual Production Manager will be responsible for all technical activities associated with activating the NASA SELECT AUDIO capability when JSC is prime. He will identify, define, coordinate and verify the implementation of all user technical requirements in connection with PAO Audio Release System activities at JSC, and will be the principal Public Affairs coordination of contractor activities in the Audio Release System facilities at the JSC News Center.

3.5.2.2 Audio Facilities and Personnel

JSC change of shift briefings will be held in the News Center briefing room. Press conferences will be held in the Teague Auditorium.

Technical facilities and operation will be as described earlier.

Media at KSC will participate from the Press Site News Facility briefing auditorium. Participation from MSFC and DFRF will be as described for the Launch Operations Phase.

When NASA SELECT AUDIO is configured to support Video Release System dissemination of in-flight activities, PAO Commentators and Audio Release System contractor personnel will operate as described under MISSION AUDIO.

3.5.2.3 Origination and Dissemination

During briefings and press conferences, audio from local JSC microphones will be mixed with SUPPORT AUDIO from other Centers. The JSC composite will be fed to the RCA Satcom Earth Station there for uplink and dissemination via satellite. It will also be processed through a muting amplifier and a 256 ms audio delay circuit and then distributed to the other participating STS News Centers on the return side of the SUPPORT AUDIO subsystem for use in their briefing locations.

When NASA SELECT AUDIO is configured for Video Release System dissemination of in-flight activities, MISSION AUDIO will be fed to the RCA Satcom Earth Station at JSC for uplink and dissemination via satellite as NASA SELECT AUDIO.

3.5.2.4 Communications

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During briefings and press conferences, the Video Release System Flight Operations Producer will relay information and instructions to the PAO Moderators at JSC and PIO's in participating locations at other Centers on PAO CUE. He will coordinate Audio Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC, DFRF and MSFC Public Affairs Officers and other Headquarters and Center Public Affairs managers and supervisors via the PAO COORD circuit.

He will coordinate the interface activities of the Audio and Video Release Systems with all other supporting technical organizations on the VIDEO OPS circuit.

When configured for Video Release System dissemination of in-flight activities and the launch, they will coordinate the sequencing of NASA SELECT AUDIO as described for MISSION AUDIO.

### 3.5.3 LANDING OPERATIONS PHASE AND POST LANDING ACTIVITIES

#### 3.5.3.1 System Responsibility and Control

Approximately two and one-half hours prior to landing, after the last Video Release System playback of in-flight activities from JSC has been completed and the reconfiguration of facilities has been validated, responsibility for NASA SELECT AUDIO will transfer from JSC to DFRF.

During coverage of landing operations and the post landing ceremony, the Video Release System Landing Operations Producer and the Taft Broadcasting Producer/Director will determine the selection and content of programming sequences. They will coordinate their decisions and activities with PAO Commentators and Audio Release System Public Affairs and support contractor personnel at KSC, JSC, MSFC and DFRF as required. As described for MISSION AUDIO during this phase, the PAO Commentator at JSC will continue to develop the commentary through crew egress with supporting coverage as appropriate from the Commentator at DFRF. After crew egress, those roles will reverse. The Commentator at DFRF will develop the commentary, with supporting coverage as appropriate from JSC, until landing coverage terminates.

The Video Release System Landing Operations Producer and Taft Broadcasting Producer/Director will also exercise control of NASA SELECT AUDIO during Video Release System coverage of the post landing ceremony and the post landing press conferences and briefings.

The Chief of the Headquarters Public Services Branch will be responsible for the development and coordination of the labored ceremony.

The DFRF Public Information Radio-TV Specialist will be responsible for the conduct of press conferences and briefings when that Center is prime. She will develop the specific plans and formats for those activities and coordinate the planning with the STS-3 Operations Manager and KSC, MSFC, JSC and DFRF News Center Managers. The DFRF Chief, Information Operations will coordinate the briefings.

Based upon the Radio-TV Public Information Specialist's specific plans for the press conferences and briefings, the Video Release System Landing Operations

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Producer and Taft Broadcasting Producer/Director will direct the technical implementation of NASA SELECT AUDIO requirements and coordinate their activities with the Audio/Visual Production Manager at JSC, the STS Information Specialist at MSFC, and the Public Information Radio-TV Specialist at DFRF.

#### 3.5.3.2 Audio Facilities and Personnel

The NASA SELECT AUDIO console at DFRF will be located in the Audio Control Facility Trailer adjacent to the LFF. Taft Broadcasting personnel will operate the Audio Release System facilities at DFRF under the management of the JSC Audio/Visual Production Manager.

When NASA SELECT AUDIO is configured to support Video Release System coverage of landing operations, PAO Commentators and Audio Release System contractor personnel will operate as described under MISSION AUDIO.

DFRF press conferences and briefings will be held in the ISF Auditorium. Media at other Centers will participate from locations described earlier.

#### 3.5.3.3 Origination and Dissemination

When configured to originate for Video Release System dissemination of landing operations, the NASA SELECT AUDIO console at DFRF will relay MISSION AUDIO as received from JSC on SUPPORT AUDIO longlines to the RCA Satcom Earth Station at Buckhorn for uplink and dissemination via satellite as NASA SELECT AUDIO.

During the lakebed ceremony, audio from TV mobile units at the site will be mixed at the NASA SELECT AUDIO console and fed directly to the Earth Station for uplink and dissemination.

During press conferences and briefings, audio from local DFRF microphones will be mixed with SUPPORT AUDIO from other Centers which has been routed through the Audio Release System Control Room at JSC. The DFRF composite will then be fed to the RCA Satcom Earth Station at Buckhorn for uplink and dissemination via satellite.

On-site distribution at DFRF will include the News Center, the Press Center and the Press Center Annex.

#### 3.5.3.4 Communications

When configured for Video Release System dissemination of landing operations, the Video Release System Landing Operations Producer and Taft Broadcasting Producer/Director will coordinate the sequencing of NASA SELECT AUDIO as described for MISSION AUDIO.

During briefings and press conferences, they will relay information and instructions to the PAO Moderators at JSC and PIO's in participating locations at other Centers on PAO CUE. They will coordinate Audio Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the JSC, DFRF and MSFC Public Affairs Officers and other Headquarters and Center Public Affairs managers and supervisors on PAO COORD.

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They will coordinate the interface activities of the Audio and Video Release Systems with all other supporting technical organizations on the VIDEO OPS circuit.

3.5.4 RTLS ABORT, LANDING AND POST LANDING ACTIVITIES

3.5.4.1 System Responsibility and Control

When configured for Video Release System dissemination of actual landing and post landing operations, responsibility and control of NASA SELECT AUDIO will be exercised as described for the launch operations phase after the roll maneuver. The JSC PAO Commentator will remain prime through crew egress and departure from the SLF. The KSC Commentator will provide supporting commentary as circumstances warrant.

After crew departure from the SLF, the KSC PAO Commentator will resume control of NASA SELECT AUDIO.

3.5.4.2 Audio Facilities and Personnel

As described for nominal launch operations.

3.5.4.3 Origination and Sources

As described for nominal launch operations.

3.5.4.4 Communications

As described for nominal launch operations.

3.5.5 AOA LANDING OPERATIONS AT DFRF

3.5.5.1 System Responsibility and Control

As described for nominal landing operations, the Taft Broadcasting Producer/Director at DFRF will exercise control of NASA SELECT AUDIO and will coordinate the selection and content of the programming sequences for the Video Release System.

The JSC PAO Commentator will exercise control of MISSION AUDIO and develop the commentary through landing and crew egress. PAO Commentators at KSC, MSFC and DFRF will provide supporting commentary as circumstances warrant.

3.5.5.2 Audio Facilities and Personnel

As described for a nominal launch operations configuration.

3.5.5.3 Origination and Dissemination

As described for the use of MISSION AUDIO as NASA SELECT AUDIO during nominal landing operations.

3.5.5.4 Communications

As described for normal launch operations.

3.6

IMPLEMENTATION PLAN FOR VIDEO RELEASE SYSTEM DISSEMINATION

The Public Affairs Video Release System will originate through NASA facilities at KSC, JSC, DFRF and only in the event of an end of mission landing at WSMR/NS.

Appropriate arrangements will be provided to enable accredited media representatives to view the system programming in STS News Centers and Press Centers during activities associated with major orbital flight test operations, and at Headquarters and other Centers on a more limited basis.

Television media will be granted direct access to the system at the originating locations and AT&T TVOC in New York and Los Angeles with permission to incorporate the NASA Video in whole or in part in television programming (service is ordered from RCA Americom, Vernon Valley, N.J.).

3.6.1

PRELAUNCH ACTIVITIES AND LAUNCH OPERATIONS PHASE

3.6.1.1

System Responsibility and Control

The Video Release System will be activated at T-3 to provide coverage of countdown status briefings, scheduled press briefings, press conferences, prelaunch activities, launch preparations and launch operations. Supporting coverage will be provided to KSC from JSC and DFRF by JSC. Supporting coverage from WSMR/NS will be provided if circumstances warrant.

The KSC Audio/Visual Coordinator will be responsible for Public Affairs activities associated with establishing the PAO Video Release System capability at KSC. During installation and checkout, and during training and simulation exercises, he will direct production related activities as necessary. During preparations for STS-3, he will be the principal Public Affairs technical interface for all users, and will be responsible for identifying, defining, coordinating and verifying the implementation of all user technical requirements in connection with video release system activities. In the absence of the Launch Operations Producer, the Audio/Visual Coordinator will direct production activities.

The Head of the Headquarters Audio Visual Section will be the Launch Operations Producer of STS-3 PAO Video Release System coverage. He will plan and execute production sequences and will direct the activities of the production staff and organization. He will also be responsible for the coordination of user production requirements and Public Affairs management and supervision activities in connection with the Audio and Video Release Systems.

He will exercise control of the Video Release System at KSC and determine the selection and scheduling of production sequences and content, coordinate Video Release System activities and decisions with the KSC PAO Commentator who is in control of the Audio Release System, and plan and coordinate system-wide Video Release System distribution activities.

3.6.1.2

Video Facilities, Equipment and Personnel

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The PAO Video Release System Control Room at KSC will be located in the Press Site News Facility. The control room will be operated by RCA under the management of the KSC Video Systems Branch for the Office of Public Affairs.

Sequencing of prelaunch activities and launch operations coverage will utilize a total of 14 color cameras:

TV-#1(K) - Minicam unit installed in van equipped with microwave transmitter

TV-#2(K) - Minicam unit installed in van equipped with microwave transmitter

TV-#3(K) - Minicam unit installed in van equipped with microwave transmitter

TV-#4(K) - Studio camera unit installed in van located at Universal Camera Site #4

TV-#5(K) - Studio camera unit installed on the VAB roof

TV-#7(K) - Minicam unit fix mounted at Perimeter Site #2

TV-#8(K) - Minicam unit fix mounted in the White Room

TV-#9(K) - Remote controlled minicam unit in Launch Control Center Firing Room #1

TV-#10(K) - Remote controlled minicam unit in Launch Control Center Firing Room #1

One camera at KSC will be provided by JSC:

TV Chase #1 - Minicam unit installed in chase aircraft equipped with microwave transmitter

Two cameras at KSC will be provided by GSFC:

TV-#6 - GSFC camera unit installed on the MDD at the Shuttle Landing Facility

TV-#11 - GSFC camera unit installed on TV Tower #1 at the Shuttle Landing Facility

JSC Select - Sequenced output of two JSC color cameras and monochrome MOCR displays at JSC

MOCR 1 - Remote controlled minicam unit in the Mission Operations Control Room

MOCR 2 - Remote controlled minicam unit in the Mission Operations Control Room

Other video sources will include:

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TV Tracker #1 - ESMC long range monochrome tracking camera

TV Tracker #2 - ESMC long range monochrome tracking camera

OTV #1 - OTV #3 - Selected from 56 OTV monochrome camera locations

VTR Playback - Output of four Video Release System videotape recorders in the system control room

Film/Slide System - Output of the Video Release System film chain in the system control room

3.6.1.3 Distribution

NASA Select, the output of the sequencing switcher in the Press Site News Facility system control room, will flow through the KSC Communications Switching and Distribution Center to the GSTDN site at MSLA, then to the RCA Earth Station for commercial satellite relay service. Primary distribution of the PAO Video Release System via satellite and terrestrial circuits will include the Johnson Space Center, the Marshall Space Flight Center, the Dryden Flight Research Facility, the Goddard Space Flight Center and NASA Headquarters, and AT&T CTO in Los Angeles and New York City.

NASA Select will be distributed at the Press Site News Center and the Press Viewing Site.

NASA Select will also flow through Communications Distribution and Switching Center for on-site distribution to the KSC Visitor Information Center.

Direct media access to NASA Select will be provided at the Broadcast Interface through a distribution system of 21 amplifiers. This distribution system will also provide for media access to uninterrupted feeds of all of the individual circuits originating at KSC, as well as three of the B&W operational circuits.

3.6.1.4 Communications

The Launch Operations Producer will coordinate Video Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the KSC, JSC, DFRF and MSFC Public Affairs and other Headquarters and Center public affairs managers and supervisors on the PAO COORD circuit.

He will coordinate with the Audio Release System and PAO Commentators on PAO CUE and PAO ENGINEERING.

The Launch Operations Producer will implement System programming plans and direct the activities of the System production staff on the TV DIRECTOR circuit, which will be transmitted by repeater to all mobile units. He will coordinate and communicate with the airborne unit in TV Chase as necessary through the TV Chase Technical Director on two VHF-AM channels.

The principal media interface will be the News Center Manager. The technical coordinator for media requirements will be the Audio/Visual Coordinator.

6.1.5 Coverage Scenario

Primary prelaunch activities and launch operations coverage will be produced with the complement of ground-based, mobile and airborne cameras located at KSC.

Daily countdown status briefings, scheduled press briefings and press conferences will be covered by TV mobile units as assigned and scheduled.

Routine coverage of the STS-3 launch configuration will be provided by TV-#7(K) at Perimeter Site #2. This camera will be capped for approximately thirty minutes each day just prior to sunset, to avoid damage from direct sunlight.

Special coverage of the STS-3 launch configuration and the launch will be provided by TV-#3(K) at UCS #3, TV-#4(K) at UCS #4, TV-#1(K) at UCS #15 and TV-#5(K) on the VAB roof.

Control room activities will be covered by TV-#9(K) and TV-#10(K) at KSC and MOCR #1 and MOCR #2 at JSC.

On launch day, crew activities at the Operations and Check-out Building will be covered by TV-#1(K) and TV-#2(K).

When the crew departs O&C, TV-#2(K) will move with the Astronaut Transfer Van to LC 39 and then to the Shuttle Landing Facility and take up a position in the RTLS landing operations convey. TV-#1(K) will move to UCS #15.

Crew arrival at the launch pad will be covered by cameras assigned to the launch coverage configuration, and coverage of crew ingress will be provided by TV-#8(K), the camera in the White Room.

As appropriate during the countdown, coverage sequences will be developed to illustrate and describe RTLS preparations at KSC.

Coverage from JSC will be developed and integrated into prelaunch and launch coverage as circumstances warrant.

At launch, in addition to the color coverage of the cameras identified above, monochrome coverage will also be available from the KSC Operational Television System and the ESMC long-range tracking cameras.

Immediately after launch, TV-#3(K) will be released. TV-#4(K) will leave the launch coverage position and move to the Press Site to provide coverage of briefings, news conferences and other activities as required.

Flight Control coverage will be provided by MOCR #1 and MOCR #2 at JSC.

Direction and control of the Video Release System will remain at KSC, incorporating JSC elements, until after it has been determined that it will not be necessary to return to the launch site to land.

Continuous coverage of the launch phase of the flight is expected to begin approximately 4 hours prior to liftoff.



**3.6.2 FLIGHT OPERATIONS PHASE**

**3.6.2.1 System Responsibility and Control**

Responsibility for the management of the PAO Video Release System will remain at KSC until the Ascent Phase change of shift briefing. However, technical responsibility for the origination of Video Release System dissemination will shift from KSC to JSC after launch, return to KSC for the post-launch press briefing and then return to JSC. The JSC Audio/Visual Production Manager will determine the selection of programming sequences and content based upon the STS-3 Photo/TV Checklist, Crew Activity Plan and other Flight Data File documentation as revised by real-time planning.

**3.6.2.2 Video Facilities, Equipment and Personnel**

Control of the PAO Video Release System at JSC will be located at the PAO Console in the Mission Operations Control Room. A-V Corporation personnel will execute Video Release System programming decisions under the management of the JSC Public Affairs Office.

Video Release System activities at the PAO console will utilize three individually controllable program outputs from the MCC 525-Line Switcher to process 20 program sources as follows:

JSC Select - Sequenced output to the RCA Satcom Earth Station, the Telco television link outbound from JSC, and, during the Flight Operations Mission Phase, to the JSC Broadcast Interface in Building 2. During Flight Operations, JSC Select and NASA Select are one and the same.

PAO-1 - Sequenced output to be displayed in the JSC News Center and Press Center in Building 1 and also made available at the JSC Broadcast Interface.

PAO-2 Sequenced output routed to the JSC Broadcast Interface in order to distribute special program sources and other material not otherwise available at the interface.

Sequencing of flight operations coverage will utilize a total of four ground based and eight orbiter cameras, three of which will be field sequential color, two in the cabin and one in the payload bay. Two of the five monochrome cameras are located on the RMS and three in the payload bay.

Ground based cameras in the Mission Operations Control Room will be:

MOCR #1 - Remote controlled minicam unit covering activities in the Mission Operations Control Room from rear locations

MOCR #2 - Remote controlled minicam unit covering activities in the Mission Operations Control Room from front locations

Other sources will include:

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**Color Spacecraft Video - Facility which converts output of four orbiter field sequential cameras to color**

**ID Code 0 - Field sequential camera located in the cabin**

**ID Code 8 - Field sequential camera located in the cabin**

**ID Code 7 - Field sequential camera located in the Cargo Bay on starboard side of the forward bulkhead**

**ID Code 13 - Video cassette recorder, playback of video from four color and two B&W spacecraft cameras**

**B&W Spacecraft Video - Output of five orbiter monochrome cameras:**

**ID Code 1 - Camera located in the Cargo Bay on the port side of the forward bulkhead**

**ID Code 2 - Camera located in the Cargo Bay on the starboard side of the aft bulkhead**

**ID Code 5 - Camera located in the Cargo Bay on the port side of the aft bulkhead**

**ID Code (TBD) - Camera located on the elbow of the RMS**

**ID Code (TBD) - Camera located on the wrist of the RMS**

**PAO Return - Sequenced output of ground based cameras used to provide coverage of briefings, news conferences and other mission related activities.**

**TV-#6(J) - Studio camera located in the News Center briefing room**

**TV-#7(J) - Camera located in the Press Center Auditorium. Note: TV-#6(J) and TV-#7(J) will be used to provide two camera coverage from either location when required. The cameras will be installed and operated by Taft contractor personnel and sequenced into Video Release System coverage at the PAO Console in the Mission Operations Control Room**

**TV-#8(J) - Minicam unit assigned to cover simulation and training activities in the Water Immersion Facility, the SAIL Simulator, the Shuttle Mission Simulator, the One-G Trainers, etc.**

**VTR Playback, Bldg. 8 - Output of six Video Release System videotape recorders**

**VTR Playback #1, Bldg. 30 - Output of Flight Operations videotape recorder**

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VTR Playback #2, Bldg. 30 - Output of Flight Operations videotape recorder

Clock - Mission time

Displays - Mission status

Special Effects Generator - Video effects

Telewriter - Graphics and Captions

RCA Satcom - Unprocessed spacecraft video incoming via satellite from HAW, GDS and MEL GSTDN sites and Video Release System supporting feeds from KSC and DFRF

Telco - Unprocessed spacecraft video incoming via terrestrial link from MAD GSTDN site and Video Release System programming from WSMR/NS when Northrup Strip is configured for nominal landing

Engineering video sources will include two frame synchronizers and a test signal/MCC identifier.

#### **.6.2.3**

##### **Distribution**

NASA Select will flow from Building 30 to the RCA Satcom Earth Station for satellite relay service to the Kennedy Space Center, the Dryden Flight Research Facility, the Goddard Space Flight Center and NASA Headquarters, AT&T CTO in Los Angeles and New York City.

NASA Select will flow through Building 8 to Building 2 for distribution throughout the News Center and the Press Center and to the Broadcast Interface.

In addition to the NASA Select video, broadcast users will have access to clean feeds of the individual JSC video sources routed through PAC #1 and PAO #2. MOCR #1, MOCR #2 and Mission Time Clock will be available direct to broadcast users.

#### **.6.2.4**

##### **Communications**

The Flight Operations Producer/ JSC Audio/Visual Production Manager will coordinate Video Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the KSC, JSC, DFRF and MSFC Public Affairs Officers and other Headquarters and Center public affairs managers and supervisors on the PAO COORD circuit.

They will coordinate with the Audio Release System personnel and PAO Commentators on PAO CUE.

The Flight Operations Producer will coordinate the planning, scheduling and release requirements for orbiter video with the STS TV Working Group on the VIDEO OPERATIONS voice circuit, and with the Flight Control Team on the MOCR TELEVISION circuits. Ground processing and handling of orbiter video will be coordinated with the MCC Television Support Team and the Center Operations

Team on the MOCR TELEVISION circuit.

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The Flight Operations Producer will implement System programming plans and direct the activities of the System staff on the VIDEO OPERATIONS and TELEVISION circuits.

The AV Corporation Technical Director will implement System technical requirements, direct the activities of engineering and support personnel, and coordinate with other Centers on the PAO ENGINEERING and TELEVISION circuits.

The Flight Operations Producer will plan and exercise control of Video Release System distribution activities on the VIDEO OPERATIONS circuit.

The principal media interface will be the News Center Manager. The technical coordinator for media requirements will be the Flight Operations Producer.

#### 3.6.2.5

##### Coverage Scenario

The PAO Video Release System will operate on a scheduled basis during the Flight Operations phase of the mission.

The System will be activated during periods when on-orbit video coverage will be relayed to JSC, when it is appropriate to report on-orbit coverage already received at JSC, and when major mission events, status reports, change of shift briefings or news conferences warrant such attention.

At all other times, Video Release System activities will be confined to coverage of the Mission Operations Control Room for on-site distribution to the News Center, Press Center, and Broadcast Interface at JSC.

Primary Flight Operations Phase system coverage will be sequenced with the output of the orbiter television system and the complement of ground-based cameras located at JSC. Secondary coverage will be provided by other Centers if it becomes necessary or appropriate to do so during the course of the mission.

On-orbit video coverage will be released in field sequential color at JSC as scheduled for downlink in the Crew Activities Plan, subject to subsequent planning revisions. Other sites will see the incoming video in its non-standard black and white state at that time, but each sequence will be converted to NTSC color and replayed to all STS-3 News Centers. (Updated Video Release System Schedule may be obtained from PAO Telecommunications Working Group Chairman.)

Other flight operations and crew activities will be recorded on-board the orbiter and may be relayed to JSC as opportunities occur during the mission. Additional PAO Video Release System programming will be scheduled as necessary to distribute such coverage.

Coverage of major mission events, status reports and news conferences will be planned and scheduled in real-time.

#### 3.6.3

##### NOMINAL LANDING AND POST LANDING OPERATIONS AT DFRF

3.3.1

System Responsibility and Control

Responsibility for the management of the PAO Video Release System will transfer from JSC to DFRF on Flight Day Seven. However, technical responsibility for the origination of Video Release System dissemination will remain at JSC until approximately two and one half hours prior to touchdown. The Deputy Director of Public Affairs/Landing Operations Producer will exercise control of the system at DFRF and determine the selection of programming sequences and content.

3.6.3.2

Video Facilities, Equipment and Personnel

The PAO Video Release System Control Room at DFRF will be located in Room 3000 B of the Administration Building. The facility will be operated by Taft Broadcasting under a JSC Center Operations support services contract.

Sequencing of approach and landing coverage will utilize a total of nine cameras. Six of these units will be operated by Taft:

TV-#1(J) - Studio camera unit installed in van equipped with microwave transmitter

TV-#2(J) - Minicam unit installed in van equipped with microwave transmitter

TV-#3(J) - Minicam unit installed in van equipped with microwave transmitter

TV-#4(J) - Minicam unit only

TV Chase #1 - Minicam unit installed in chase aircraft equipped with microwave transmitter

TV Helicopter - Minicam unit removed from backup chase aircraft and installed in an Air Force helicopter equipped with microwave transmitter for airborne coverage of landing site

Two cameras will be provided by DFRF:

LRO - The DFRF Long Range Optics tracking camera required for range support

TV-#1(D) - A remotely controlled minicam unit installed in the DFRF Flight Control Room

Two cameras will be provided by the Western Space & Missile Center:

Santa Ynez TV - An Air Force long range monochrome tracking camera located on Santa Ynez peak

Tranquillon Peak TV - An Air Force long range monochrome tracking camera located on Tranquillon Peak

Other production sources will include:

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**ACF Return - Output of six videotape recorders in the Audio Control Facility**

**JSC Select - Terrestrial link for coverage of Mission Operations Control Room activities, status briefings and news conferences at JSC**

**RCA Satcom - PAO Video Release System programming return from the satellite via Buckhorn ground station**

Engineering video sources will include a status clock, a test pattern, color bars and black.

### 3.6.3.3 Distribution

NASA Select, the output of the Video Release System switcher, will flow to the RCA Satcom Interface, DFRF Headquarters Building 4800. Primary distribution of the PAO Video Release System via satellite will include the Johnson Space Center, the Kennedy Space Center, the Goddard Space Flight Center and NASA Headquarters, AT&T CTO in Los Angeles and New York City.

NASA Select will flow through the Audio Control Facility trailer to the Institutional Support Facility for distribution to six monitors in the DFRF Working Press Center, the News Center, the Public Affairs offices, and 32 distribution amplifiers for the broadcast media covering the landing at DFRF.

NASA Select will also flow to a leased facility which will transmit it by microwave to monitors at the Guest Viewing Site and the Press Viewing Site.

In addition to the NASA Select video, broadcast users will have access to clean feeds of the key individual video sources. TV-01(J), TV-02(J), TV-03(J), TV-04(J), TV Chase/TV Helicopter, and LRO will each be released at the Institutional Support Facility on eight distribution amplifiers. TV-01(D), WSMC long range optics and JSC Select will be released on a time shared basis through a second switchable release circuit.

### 3.6.3.4 Communications

The Landing Operations Producer will coordinate Video Release System activities with the Director of Public Affairs, the STS-3 Operations Manager, the DFRF, JSC, KSC and MSFC Public Affairs Officers and other Headquarters and Center public affairs managers and supervisors on the PAO COORD circuit.

He will coordinate with the Audio Release System and PAO Commentators on PAO CUE and PAO ENGINEERING.

He will coordinate with the OFT Manager on the OFT MANAGER circuit and with the TV Operations Coordinator and others as necessary on LANDING FIELD L.

The Landing Operations Producer will plan and exercise control of Video Release System distribution activities on the VIDEO OPERATIONS circuit.

The Taft Producer/Director will implement System programming plans and

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direct the activities of the System production staff on the TV DIRECTOR circuit, which will extend to the mobile units and the lakebed TV Photo Coordinator by VHF two-way radio. The Television Operations Manager and the Taft Technical Director will communicate with the airborne units on TV Chase and TV Helicopter on assigned VHF frequencies.

The Taft Technical Director will implement System technical requirements, direct the activities of engineering and support personnel, and coordinate with other Centers, on the TV ENGINEERING, PAO ENGINEERING and TV CONFERENCE circuits.

The principal media interface will be the News Center Manager.

**3.6.3.5**

**Coverage Scenario**

Primary landing site coverage will be developed with the complement of airborne, mobile and ground-based cameras located at DFRF and the WSMC long range tracking systems.

JSC will continue to provide supporting coverage of the Mission Operations Control Room, status briefings and other activities as required during re-entry, landing, crew egress and the post-flight period. The local camera sources will be integrated at JSC, at the direction of the PAO Video Release System producer at DFRF, and transmitted to DFRF via terrestrial circuit to be incorporated in the NASA Select programming.

Video Release System sequencing at DFRF will begin with airborne (helicopter) coverage of landing preparations on the dry lakebed. This coverage will start approximately two and one half hours prior to touchdown and terminate 50 minutes prior to touchdown.

Weather permitting, the Air Force long range monochrome tracking camera will provide the first view of the incoming orbiter. This coverage may begin as much as 10 minutes prior to landing. The video will be transmitted to DFRF via terrestrial circuit and sequenced in the NASA Select programming as appropriate.

Approximately five minutes prior to landing, the orbiter may come within range of the Long Range Optics color camera at DFRF. This coverage could overlap with the first view of the orbiter from the TV Chase #1 airborne camera, but it is more likely that there will be a gap in the coverage.

As the orbiter approaches Rogers Dry Lake, at an altitude of approximately 35,000 to 40,000 feet, it will come within view of the three mobile camera units. TV-#1(J) will be located on the lakebed, near the planned wheel stop. TV-#2(J) will be with the landing operations Convoy in a staging unit near the edge of the lakebed. TV-#3(J) will be near the approach end of the designated runway.

TV Chase #1 will provide airborne coverage of the orbiter as it approaches the lakebed, starting at 32,000 feet, about two minutes prior to touchdown. TV-#1(J), TV-#3(J) and the LRC camera will provide ground-based coverage of the approach and landing.

TV-#4(J) located on the DFRF Administration building, will provide support coverage of activities in that immediate area.

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TV-#1(D) will provide intermittent coverage of the activities in the DFRF Flight Operations Control Room on a non-interference basis.

Vehicles in the landing operations Convoy will deploy to positions near the orbiter during rollout. TV-#2(J) will then begin to provide close-in coverage of the activities associated with preparations for crew egress.

When TV Chase #1 coverage ends, the Air Force helicopter will begin to provide general airborne coverage of the landing site and other nearby locations.

Safety considerations which govern vehicle movement and proximity to the orbiter will dictate that TV-#1(J) and TV-#3(J) remain at a distance of 1,200' immediately after wheel stop. When TV-#2(J) begins transmitting from its initial convoy position, TV-#3(J) moves to the orbiter site while TV-#1(J) continues coverage of the overall scene. As soon as it is safe to do so, TV-#2(J) will move in to become a hand-held, walk-around camera at the 700' radius. TV-#1 will then reposition to within 1,000' of the orbiter.

In the event the orbiter lands at another location on the lakebed, TV-#2(J) will provide close-in coverage from the site as soon as the Convoy is deployed to the area. TV-#3(J) and TV-#1(J) will obtain Edwards Ground Controller clearance to move near the landing site through the TV Operations Coordinator and proceed to new locations determined by safety considerations and appropriate sun angles.

Approximately 45 minutes after nominal landing, all three cameras will provide coverage of crew egress, orbiter inspection and crew departure.

TV-#1(J) and TV-#3(J) will leave the lakebed after covering the crew egress and will then be available for coverage of ceremonies, briefings, a post-flight news conference, crew activities, or other events as required.

TV-#2(J) will support operational tile inspection of the orbiter while it remains on the lakebed.

Sequencing of NASA Select video incorporating DFRF and JSC elements will continue until post-flight briefings and news conferences at both DFRF and JSC have been concluded. Continuous coverage of this phase of the flight is expected to total approximately four hours.

#### **1.6.4 RETURN TO LAUNCH SITE ABORT AND LANDING**

##### **1.6.4.1 System Responsibility and Control**

Responsibility for the PAO Video Release System will be retained at KSC. JSC will continue to provide supporting coverage from JSC as required.

The Launch Operations Producer will exercise control of the system at KSC and will determine the selection of programming sequences and content.

##### **1.6.4.2 Video Facilities, Equipment and Personnel**

There will be no change in production facilities and personnel as described for nominal Prelaunch Activities and Launch Operations.



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Shuttle Landing Facility video from KSC will be provided by Video System mobile units as repositioned for RTLS coverage, TV Chase, TV-#6 on the MDD and TV-#11 on TV Tower #1.

3.6.4.3 Distribution

Distribution as configured for nominal Prelaunch Activities and Launch Operations will be retained.

3.6.4.4 Communications

Communication as configured for nominal Prelaunch Activities and Launch Operations will be retained.

3.6.4.5 Coverage Scenario

Primary RTLS coverage will be produced with the complement of airborne, mobile and ground-based cameras located at KSC and Patrick AFB. JSC will continue to provide coverage of the Mission Operations Control Room, status briefings and other activities as required during the handling, crew egress and post-flight period. The local camera sources will be integrated at JSC and transmitted to KSC via terrestrial circuit to be incorporated in the NASA Select programming.

The TV Tracker will re-establish coverage of the incoming orbiter at (TBD) feet, (TBD) miles off shore, at approximately (TBD) prior to touchdown.

Within (TBD) minutes, at an altitude of 30,000 to 40,000 feet, the orbiter will come within range of the TV Chase #1 airborne camera.

As the orbiter approaches the Shuttle Landing Facility, at an altitude of approximately (TBD) feet, it will come within view of and TV-#6 and TV-#11 at the runway and TV-#5(K) on the VAB roof.

During rollout, vehicles in the landing operations convoy will deploy to positions near the orbiter. TV-#2(K) will then begin to provide close-in coverage of the activities associated with preparations for crew egress.

When the crew leaves the landing site, TV-#2(K) will accompany the van to the O&C Building and provide coverage from that location as required. TV-#1(K) and TV-#3(K) will go to the Press Site to provide briefing and press conference coverage. TV-#5(K), TV-#6 and TV-#11 will continue to cover the activities at the Shuttle Landing Facility until the orbiter is towed to the OPF.

Flight Control coverage will be provided by MOCR #1 and MOCR #2 at JSC, and post-flight briefings and news conferences will be covered by TV-#6(J) and TV-#7(J).

Sequencing of NASA Select video incorporating KSC and JSC elements will continue until the orbiter has been towed from the runway, the crew status has been established, and post-flight briefings and news conferences at both KSC and JSC have been concluded.

3.6.5

AOA LANDING AND POST-LANDING OPERATIONS AT DFRF

3.6.5.1 System Responsibility and Control

Overall responsibility for the PAO Video Release System dissemination will remain with the Launch Operations Producer at KSC. Technical responsibility on the origination of dissemination via satellite will shift from JSC to DFRF at MET 00:45, when the Taft Broadcasting Producer/Director will determine the selection of programming sequences.

JSC will provide supporting coverage of flight control activities, briefings and news conferences at JSC.

3.6.5.2 Video Facilities, Equipment and Personnel

Video System Control will be retained at KSC as configured for Launch Operations coverage. Coverage at JSC will remain the same as for Launch and Flight Operations.

Video sources at DFRF will be the same as for a nominal landing.

JSC switching responsibilities will remain the same as for Launch Operations coverage.

3.6.5.3 Distribution

Distribution will be reconfigured for Landing Operations coverage.

3.6.5.4 Communications

Communication will be reconfigured for Landing Operations sequencing.

3.6.5.5 Coverage Scenario

Coverage will be essentially the same as for a nominal landing.

3.6.6 E-O-M NOMINAL LANDING AND POST-LANDING OPERATIONS AT WSMR/NS

3.6.6.1 System Responsibility and Control

Responsibility for the PAO Video Release System will shift from JSC to WSMR/NS after the last pass over the Guam tracking station prior to landing. The Deputy Director of Public Affairs, as Producer, will exercise control of the system at WSMR/NS and will determine the selection of programming sequences and content.

3.6.6.2 Video Facilities, Equipment and Personnel

Elements of the Video Release System capability established by JSC at DFRF will be relocated to WSMR/NS as required for System operations and coverage there.

The sequencing facility will be housed in the TV-45(J) trailer located at Northrup Strip. The coverage of approach and landing will be switched at the WSMR/NS facility and routed by terrestrial circuit via Los Angeles to the RCA

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Satcom South Mountain Earth Station for Video Release System satellite distribution.

Approach and landing coverage will utilize a total of six cameras installed and operated by Taft Broadcasting under JSC Center Operations support services contract:

TV-#1(J) - Studio camera unit installed in van equipped with microwave transmitter

TV-#2(J) - Minicam unit installed in van equipped with microwave transmitter

TV-#3(J) - Minicam unit installed in van equipped with microwave transmitter

TV-#5(J) - Studio camera located near the Northrup Strip runway intersection

TV Chase #1 - Minicam unit installed in chase aircraft equipped with microwave transmitter

TV Helicopter - Minicam unit removed from back-up chase aircraft and installed in an Air Force helicopter equipped with microwave transmitter for airborne coverage of landing site

One camera will be provided by White Sands Missile Range:

TV Tracker - Radar directed monochrome camera with telescopic lens

Other video sources will include:

JSC Select - Terrestrial link for coverage of Mission Operations Control Room activities status briefings and news conferences at JSC

VTR Playback - Output of five video cassette recorders located in the TV-#5(J) production trailer

3.6.6.3 Distribution

NASA Select, the output of the PAO Video Release System, will originate at TV-#5(J). Video sources at WSMR/NS will be integrated there and routed to Los Angeles via terrestrial circuit to be distributed via RCA Satcom satellite to the Johnson Space Center, the Kennedy Space Center, the Dryden Flight Research Facility, the Goddard Space Flight Center and NASA Headquarters, AT&T CTO in Los Angeles and New York City.

Distribution at WSMR/NS will be limited to Press Viewing Site and the News Center at WSMR.

3.6.6.4 Communications

The Producer will coordinate Video Release System activities with the Director of Public Affairs, the STS Operations Manager, the NS News Manager, the

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DFRF, JSC, KSC and MSFC Public Affairs Officers and other Headquarters and Center Public Affairs managers and supervisors on the PAO COORD circuit.

He will coordinate with the Audio Release System and PAO Commentators on PAO CUE and PAO ENGINEERING.

He will coordinate with the OFT Manager on the OFT MANAGER Circuit, and with the TV Operations Coordinator and others as necessary on LANDING FIELD #1.

The Producer will plan and exercise control of Video System distribution activities on the VIDEO OPERATIONS circuit.

The Taft Producer/Director will implement System programming plans and direct the activities of the System production staff on the TV DIRECTOR circuit, which will extend to the mobile units and the labeled TV Photo Coordinator by VHF two-way radio.

The Television Operations Manager and the Taft Technical Director will communicate with the airborne units on TV Chase and TV Helicopter on assigned VHF frequencies.

The Taft Technical Director will implement System technical requirements, direct the activities of engineering and support personnel, and coordinate with other Centers, on the TV ENGINEERING, PAO ENGINEERING and TV CONFERENCE circuits.

The principle media interface will be the News Center Manager.

#### 3.6.6.5 Coverage Scenario

(TBD)

### 3.7 IMPLEMENTATION PLAN FOR VOICE COMMUNICATION

The Public Affairs Voice Communication System will employ low duplex circuits for the management and coordination of Audio and Video Release System operations during orbital flight tests.

The circuits will be maintained and operated as elements of the ITS Operational Voice Communications System. Configuration and access requirements will be identified and defined as described below and submitted to the TVS Intercenter Communications Working Group for implementation by (TBD) at JSC.

#### 3.7.1 System Configuration

Public Affairs Voice Communication System circuits will be identified, defined and configured as described in Attachment (1).

#### 3.7.2 Access

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Authorization for access terminations on these circuits will be based upon the requirements validation processes of the interorganizational STS Support Requirements Management and Documentation System contained in NMI 8610.10. Access will be controlled in accordance with NMI 8610.10, Control of Access to Operational Voice Communications Circuits - Space Shuttle Program.

Initial system termination requirements will be determined, stated and authorized by the Public Affairs Telecommunications Working Group. Requests for access not authorized at the initial system configuration must be submitted to the Headquarters Public Affairs Officer, Space Transportation Systems, for review and approval by the STS Public Affairs Telecommunications Working Group prior to documenting the requirement in the interorganizational or intraorganizational requirements documentation system. Only properly validated and documented requirements for access will be approved and implemented.

In no case will termination requirements be approved for unsupervised locations which are frequently unattended in the absence of Public Affairs personnel with assigned dissemination responsibilities or which might otherwise provide unauthorized access to the Public Affairs Voice Communication System.

Authorized circuit terminations will be published as Appendix (TED) of this plan. The Chairman of the STS Public Affairs Telecommunications Working Group will maintain, update, and distribute current documentation of authorized access terminations as necessary for both internal and external publication.

3.7.3

Discipline

The Public Affairs Voice Communications System will be used for STS-2 operational Public Affairs communications. It will not be used as an alternate to the FTS system for routine communications.

Call signs will be assigned to all stations on the system and to key personnel. Only listed call signs will be used.

Voice communications will be disciplined to assure efficient utilization and eliminate unnecessary traffic which would create confusion during time-critical operations.

The use of PAO COORD will be prioritized as follows for the purpose of restricting traffic during critical activities:

PRIORITY 1    Director, Hqs Public Affairs Division  
                  Deputy Director, Hqs Public Affairs Division  
                  STS Public Affairs Operations Manager  
                  PAO Telecommunications Working Group Chairman  
                  DFRF Director of Public Affairs  
                  JSC Director of Public Affairs  
                  KSC Director of Public Affairs  
                  MSFC Director of Public Affairs  
                  Launch/Mission Commentator

PRIORITY 2    All Above plus:  
                  DFRF News Center Manager  
                  JSC News Center Manager

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KSC News Center Manager  
MSFC News Center Manager

**PRIORITY 3** All Authorized Users

**PRIORITY 1** Conditions automatically prevail T-5 minutes through ET SEP, during contingencies (including all abort modes), entry interface through landing rollout and at other times when declared by the STS Public Affairs Operations Manager.

**PRIORITY 2** may be invoked by any party listed in that category.

**PRIORITY 3** prevails at all other times.

During periods of high activity, the commentator may elect to drop off PAO COORD and/or CUE circuits in order to adequately monitor LCC/MOCR and air/ground loops essential to his understanding of missions events. The AD on the console will screen all traffic intended for the commentator, handling to a conclusion those matters over which he has control or knowledge and relaying messages to the commentator when appropriate.

The use of PAO CUE will be prioritized as follows for the purpose of restricting traffic during critical activities:

**PRIORITY 1** PAO Commentators  
PAO Video Release System Producers  
Audio Release System Technical Directors

**PRIORITY 2** Support Staff

Priority 1 conditions will automatically prevail when the Audio System is in a release mode.

The use of VIDEO OPERATIONS will be prioritized as follows for the purpose of restricting traffic during critical activities:

**PRIORITY 1** PAO Video Release System Producers  
PAO Commentators  
PAO Telecommunications Working Group Chairman  
Video System Directors and Technical Directors

**PRIORITY 2** Support Staff

Priority 1 conditions will automatically prevail when the Video System is in a release mode.

<u>Circuit #</u>	<u>Identification</u>	<u>Purpose</u>	<u>Configuration</u>
I - 040	PAO	Real-time planning and coordination of activities by the Director of Public Affairs, the Deputy Director of Public Affairs, the STS Public Affairs Operations Manager, the PAO Telecommunications Working Group Chairman, Center Public Affairs Officers, PAO Commentators, the Video Release System Producers and other Public Affairs managers and supervisors as assigned for STS-3	Headquarters, KSC, MSFC, JSC, DFRF, WSMR/NS. Console positions of those involved when on duty at mission status locations; offices and conference rooms of those involved when not on duty at mission status locations.
I - 092	PAO CUE	Implementation and coordination of Audio and Video Release System activities by the PAO Commentators, Executive Producer, and support personnel as assigned for STS-3.	KSC, JSC, DFRF, WSMR/NS. Console positions of those involved when on duty at mission status locations; working locations of support personnel when on duty as assigned for STS-3.
I - 051	PAO ENGINEERING	Planning, implementation and coordination of Audio and Video Release System technical activities, management and maintenance of circuits and facilities by supervisory and support personnel as assigned for STS-3.	KSC, JSC, DFRF, WSMR/NS. Console positions of those involved when on duty at mission status locations; working locations of supervisory and support personnel when not on duty at mission status locations.
I - TBD	VIDEO OPERATIONS	Planning, directing and controlling of Video Release System operations, coverage, sequencing and distribution by the Video Release System Producer and staff, the STS TV Working Group and the TV Operations Coordinator.	KSC, JSC, DFRF, WSMR/NS. All office and console positions of the Producers and STS TV Working Group Chairman, and console positions of those directly involved when on duty at mission status locations.

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## **4.0 PROTOCOL OPERATIONS**

### **4.1 FOREWORD**

STS-3 guest operations will require Public Affairs to support major activities at KSC for launch and at DFRF for landing.

### **4.2 GUEST ACTIVITIES**

This plan covers guest activities for the scheduled STS-3 launch at the Kennedy Space Center, and landing at Dryden Flight Research Facility.

As with STS-1 and 2 an agency-wide program for handling NASA guests will be in effect. It will be staffed by Public Affairs Protocol personnel from KSC, JSC, DFRF, MSFC, and augmented by public and non-public affairs staffing from Headquarters and other NASA installations. The Public Services Branch, Public Affairs Division at NASA Headquarters is responsible for overall implementation and coordination of the plan which calls for the invitation and accommodation of the following guest categories for launch and landings.

#### **4.2.1 WASHINGTON GUESTS**

A select group of White House, OMB, Congressional, International, Cabinet, DOD and other Federal officials to be invited by the Administrator to KSC to observe the launch. Some of the guests may continue to JSC to observe mission activities and to DFRF for the landings.

#### **4.2.2 SPECIAL GUESTS**

Headquarters nominees (guests of the Administrator, Deputy Administrator), primarily individuals nominated for invitation by the associate administrators and the Directors of NASA centers.

Associate administrators and center directors will be assigned a quota for launch and landing. Their guest nominations will be submitted in advance to the Public Services Branch for compilation into a Master Invitation List maintained at NASA Headquarters but available to all installations with access to the JSC Word One Computer.

Special guests will be invited to either launch or landing. Some may be invited to both events. NASA will accommodate 3,000 special guests for the launch and between 4 and 6 thousand for landing. All guests will be invited by the National Aeronautics and Space Administration. The mailing will include a printed invitation, which provides details on the mission, directions, maps, RSVP cards for both launch and landing.

At KSC, special guests will check into a NASA Guest Services Center located at the Crossway Inn, Cocoa Beach. They will have an opportunity to take a tour of KSC and Cape Canaveral Air Force Station two days prior to launch. There will be no post launch tours.

On launch day, special guests will be bused from the Guest Services Center and other locations in central Florida to the launch viewing site located at the Barge Terminal, adjacent to the press site.



For landing, most special guests will be required to provide their own ground transportation to the viewing site, located at the DFRF Flight Loads Lab and Maintenance Dock Hangars. Admission to Edwards Air Force Base and the viewing area will be restricted to those guests who display the proper NASA placard in the windshield of their vehicles. Each guest attending the landing will be able to include additional members of family or friends limited to a family size sedan.

NASA-furnished bus transportation will be limited to the Administrator's Washington guests, and DFRF will provide shuttle-bus service for groups landing at Edwards the morning of landing. The buses will transport the guests from Base Operations to the viewing site at the Flight Loads Lab and Maintenance Dock Hangars.

#### 4.2.3

##### GENERAL PUBLIC

1. (Launch) - Guests who provide their own transportation to the Kennedy Space Center and who may be accompanied by friends or relatives, including children of any age, will be accommodated at the following site:

<u>Causeway</u>	7,500 cars	37,500 people
	200 Buses or Oversized Vehicles	4,500 people
		<u>42,000 TOTAL PUBLIC</u>

Gates 1, 2, and 3 will open at 3:00 a.m. Causeway East permits will access KSC at Gate 1 only. Recreational vehicles, campers, trailers, buses will access KSC at Gate 2 and 3 and park on the NASA Causeway West. All other vehicles entering KSC from gate 2 or 3 will be directed to the West Causeway.

2. (Landing) - The public viewing site will again be located on the east side of the dry lake bed. Up to forty thousand vehicles, including campers, trailers and recreational vehicles, will be accommodated. Vehicle passes and related information will be issued through local government and chamber of commerce offices, NASA Headquarters and field installations. Vehicle passes will be honored at Edwards 24 hours prior to the landing.

#### 4.2.4

##### EMPLOYEES AND DEPENDENTS

NASA employees and contractor personnel and their families will be accommodated as follows:

Launch - KSC has an allocation of vehicle permits for issuance to its employees and contractor work force. NASA Headquarters has allocated a quota of parking permits to Headquarters offices and field installations. The Causeway is the primary viewing area for employees, dependents and the general public.

#### **4.2.5**

##### **CONTRACTORS**

The following ground rules and contractor guest allocations will apply to STS-3:

NASA will invite and accommodate 300 prime and 200 support contractors to the launch and landing. Each center will be responsible for assuring that their institutional support contractors are included as NASA guests.

These guests will be bused by NASA from the guest services center at Cocoa Beach to the Kennedy Space Center and returned following the launch.

In addition to the assigned guest allocations, contractors are authorized to bring their own guests in buses to one of two proposed sites: Static Test Road or the West Causeway.

This site will also accommodate other institutional groups who provide their own transportation.

For the landing, contractors will be provided with the necessary passes for buses and vehicles which will enable them to drive to the viewing site located at the Flight Loads Lab and Maintenance Dock Hangars. NASA will not furnish bus transportation.

Contractor guests in buses furnished by the contractors will be admitted to Site B, located a quarter of a mile west of DFRF at Lilly and Rosamond Boulevard. This viewing area has capacity for 100 buses and 6,000 people.

#### **4.3**

##### **LAUNCH SLIPPAGE AND HOW GUEST OPERATIONS ARE AFFECTED**

As a matter of practice, all guests will be advised of the potential for launch slippage and postponement.

The possibility of delays is spelled out in the invitations and accompanying information and vehicle passes. It will be incumbent on all guests (special, general public and NASA employees) to stay informed of launch-related developments.

Guests will be instructed to call the recorded status report lines operated at NASA Headquarters and all STS centers, for information and launch status before making final travel arrangements.

In addition, guests will be urged to look to the media for late-breaking developments concerning the launch and landing. All credentials issued will remain valid until completion of the event - usually three days.

#### **4.4**

##### **GUEST ACTIVITIES - KENNEDY SPACE CENTER**

##### **4.4.1**

###### **GUEST SERVICES CENTER**

A Guest Services Center will be established beginning T minus 5 days at the Crossway Inn, 3901 North Atlantic Avenue, Cocoa Beach. It will function as a coordinating point for guest operations, logistics, airplane arrivals and beginning T minus 3 days will receive and badge invited guests. It will be staffed by Headquarters Public Affairs personnel and representatives from the STS centers as well as representatives from the Office of Legislative Affairs and International Affairs Division.

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4.4.2

STAFFING

<u>POSITION</u>	<u>NAME</u>	<u>INST</u>	<u>REPORT</u>
Director, Guest Operations	James McCulla	HQS	T-1
Deputy Director, Guest Operations	Gene Marianetti	HQS	T-5
News Center Notifications of VIPs at Launch	Geneva Barnes	HQS	T-5
Guest Services Center Manager	Arnold Richman	KSC	T-5
Assistant Manager	Darleen Hunt	KSC	T-5
Special Groups Coordinator	John Ross	KSC	T-5
Administrative Services Coord.	Libby Wells	KSC	T-5
Office of Legislative Affairs Representative	Pat Newcomer	HQS	T-5
Transportation and Logistics Coordinator	Carolyn Townsend	HQS	T-5
JSC Public Affairs Representative & Astronaut Families' Coordinator	Jackie Loadholtz	KSC	T-5
MSFC Public Affairs Representative & secretary	Stella Luna	JSC	T-5
Astronauts' Guests Coordinator	Ed Schorsten	MSFC	T-5
Receptionists	Jeanne Marks	JSC	T-5
Clerks/Secretaries (badging)		KSC	T-5
Computer Guest List Coordinators	Sharon Lord	HQS	T-5
	Cindy Koerner	KSC	T-5
	Barbara Hiddle	KSC	T-5

4.4.3

VISITORS INFORMATION CENTER (VIC)

A Guest Courtesy Information Desk will be staffed by two KSC personnel beginning T minus 3 days between the hours of 8:30 a.m. and 5:00 p.m. to assist guests with launch questions and to provide information.

The VIC will be open to NASA guests on launch day. Continuous briefings will be conducted in the facility's two theaters. It will also re-open to the public at Launch plus 4 hours.

4.4.4

GUEST VIEWING SITES

L. Firing Room #4, Launch Control Center

This facility, with capacity for 125-150 guests, will be reserved for use by special groups. The following will be available:

- a. Coffee
- b. Telephone (867 prefix)
- c. Point-to-point telephone connecting Barge Terminal Guest Site
- d. NASA video and audio release

## **2. Schwartz Road Viewing Site**

This site will be restricted to special guests, including those from Washington. Available at this site will be the following:

- a. Bleacher seating
- b. Parking area for buses
- c. Public address system, microphone for all on-site announcements, switching capability to provide NASA audio release through orbital insertion.
- d. Portable toilets in separate groups for men and women
- e. Five (5) telephones (967 prefix) located at the Site Information Center
- f. Point-to-point telephone connecting with LC-39 press site
- g. Point-to-point telephone connecting with PAO console in Operations Management Room (Control Room #1).
- h. Telephones connecting with LCC and other viewing sites
- i. Ambulance and first aid services and traffic control
- j. Food service and souvenir sales
- k. Special bleacher security, appropriate signs and control ropes

Except for the Administrator's Washington Guests, i.e., White House, Congressional, and International, there will be no reserved seating at this site.

## **3. Static Test Road Site**

This site, will accommodate 40 buses or 2,000 people. Contractors and other groups using charter buses will be accommodated at this site.

## **4. NASA Causeway Viewing Site**

This is the only viewing site for general public, NASA employees and their dependents. Located between the Kennedy Space Center and the Cape Canaveral Air Force Station, admission will be by the proper NASA placard displayed in the windshield of guests' vehicles. The Causeway site will have portable toilets, drinking water, NASA audio release, local public address input and traffic control.

## **5. Astronaut Viewing Site**

The site, located adjacent to the Schwartz Road Viewing area, will be limited to two buses (100 people). Other astronauts, their families and guests should be included in the JSC special guest or car pass allocations.

### **4.4.5 PRE- AND POST-LAUNCH TOURS AND BRIEFINGS**

#### **Special Guests:**

Each guest receiving a special guest invitation will have the opportunity to indicate on an RSVP card whether they desire a pre-launch tour and Space Shuttle briefing, which will be available beginning T minus 2 days, and continuing through T minus 1 day.

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Briefings will be conducted in the KSC Training Auditorium and the VIC Theaters. Because of security and safety restrictions in the VAB and LOC, these areas may be excluded from the special guest tour route.

General Public

Guests and NASA dependents with vehicle passes will be encouraged to take the TWA Services tour of the Space Center prior to the launch or T plus 1. On launch day, the Visitors Information Center (VIC) will be closed to the general public until after the launch.

**4.4.6** LAUNCH CONTINGENCY PLANS

**1. Holds of Less Than One Hour:**

All guests will remain at viewing sites

**2. Postponement:**

Invitation and vehicle passes remain valid and are automatically extended for the rescheduled launch date.

**3. Emergency Situation:**

Director of KSC Public Affairs will direct the evacuation of viewing sites in accordance with safety and security instructions provided in real time.

**4.4.7** NEWS CENTER NOTIFICATION OF VIP GUESTS

A list of guest acceptances will be compiled at the NASA Guest Services Centers at Cocoa Beach and Lancaster beginning T minus 8 days at KSC and launch day at DFRF. The names of prominent individuals who have indicated on RSVP cards that they plan to attend the launch, landing or both, will be furnished to designated individuals at each of the two news centers. An initial list will be updated daily and where possible an attempt will be made to confirm that these VIP's are in the area and where they may be reached and whether they would be available for media interviews. The Special Guest Coordinators at KSC and at DFRF, will be responsible for furnishing daily updates to both news centers.

**4.5** GUEST ACTIVITIES - JOHNSON SPACE CENTER

Following STS-3 launch, the JSC Public Services Branch will be responsible for coordination of all special guest activities.

**4.5.1** PUBLIC AFFAIRS STAFFING AT JSC:

Manager, JSC Guest Operations  
Special Guests and Program  
Coordinator  
Protocol Assistant

William Derding  
Jack Waite  
Juanie Smith

**4.6** GUEST ACTIVITIES - DRYDEN FLIGHT RESEARCH FACILITY

**4.6.1** PROTOCOL CONTROL CENTER

The Protocol Control Center will be located at DFRF Public Affairs Office, and will function as a coordinating point for guest operations, including guest status, logistics and aircraft arrivals.

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#### GUEST SERVICES CENTER

NASA will operate a Guest Services Center at the Antelope Valley Convention Center, located at 44073 North Sierra Highway, Lancaster, California. This center will assist guests, issue credentials and resolve problems. It will be staffed by DFRF and Headquarters personnel. The facility will open T minus 3 days prior to launch. The center will consist of these areas:

- A. VIC Office
- B. Sierra East Room
- C. Lobby

4.7.1

#### STAFFING

<u>POSITION</u>	<u>NAME</u>	<u>INST.</u>
Director, Dryden Guest Operations	Roger Barnicki	DFRF
Manager, Guest Services Center	Don Bacon	DFRF
Assistant Manager, Guest Services Center	Bill Nielson	DFRF
Guest Viewing Site Coordinator	Lee Adelsbach	DFRF
Assistant Guest Viewing Site Coordinator	Harold O'Brien	DFRF
Washington Guests Coordinator	TBD	HQS
Special Groups Coordinator	Nancy Lavato	DFRF
Astronaut Family Coordinator	Roger Barnicki	DFRF
Astronaut Family Escorts	Nancy Lavato	DFRF
	Stella Luna	JSC
	Bob Springer	JSC
	Darlene Freyler	JSC
General Public Coordinator	Dick Gray	DFRF
Logistics/Transportation/Support Services	Wen Painter	DFRF
Tours and Briefing	Berwin Koch	DFRF
Office of Legislative Affairs	Bob Baron	DFRF
Coordinator	Lynn Murphy	HQS
International Affairs Division	TBD	HQS
Coordinator		

4.8

#### GUEST VIEWING SITES

Admission to the Edwards Air Force Base complex and the designated viewing site will require guests to display the proper NASA placard in the windshield of the vehicle.

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**1. Viewing Site A**

Located at the Flight Loads Lab and Maintenance Deck Hangars, this site will be limited to four to six thousand special guests. Admission to the site will require the proper vehicle permit and individual badges for each occupant in the vehicle. The following will be available:

- a. Seating
- b. Public and official telephones
- c. NASA video and audio release
- d. Restrooms and portable toilets
- e. Ambulance and first aid
- f. Food service and souvenir sales
- g. Paging system
- h. Parking and traffic control
- i. Speakers platform, chairs, podium, loud speaker system for possible welcome ceremony for crew
- j. Security personnel

**2. Viewing Site B**

This site, located one quarter of a mile west of Dryden at Lilly and Rosamond Boulevards (adjacent to Site C), will accommodate contractors and groups using charter buses. A total of 100 buses carrying 5,000 people can be accommodated at this location, which will be equipped with the following:

- a. Public telephones
- b. NASA audio release
- c. Water
- d. Portable toilets
- e. Ambulance and first aid
- f. Food service and souvenir sales
- g. Paging system
- h. Parking and traffic control

**3. Viewing Site C**

This area, located one quarter of a mile west of Dryden at Lilly and Rosamond Boulevards (adjacent to Site B) will accommodate an additional 1,000 cars, 50 buses, and 5,500 people. This site will be equipped with the same services at Site B.

**4. Viewing Site D**

This area, located in the Dryden complex, will be restricted to special guests of the DFRF Director and center employees. Admission to this site will require a NASA identification badge.

**5. Special Site**

For prime crew families (approximately five to ten) and escorts. The following will be available at this site:

- a. NASA video and audio release
- b. Telephones
- c. Restrooms
- d. Refreshments
- e. Security personnel

**6. East Shore Viewing Site**

NASA will issue 40,000 vehicle passes for this location which is located at the east edge of the dry-lake bed area. Vehicle passes and related guest information and material will be issued through local government and Chamber of Commerce offices from San Diego to San Francisco. Last minute requests will be handled at the Guest Services Center in Lancaster beginning three days prior to the launch.

Vehicle passes will be honored at Edwards AFB gates beginning 24 hours prior to landing. This will provide adequate time for vehicles to enter the base once the Space Shuttle has been successfully launched and is in orbit.

General public traffic will be channeled away from Edwards main entrances (West and North Gates). Those vehicles entering from the West will be routed to 110th Street East and those from the North to Rich Road.

Routing of general public traffic will assure access by program personnel, special guests and press.

Temporary gates operated by Air Force personnel will be located at base perimeters preventing backup traffic.

The Public Viewing Site will have drinking water, portable comfort stations, restraining barriers, ropes and stanchions for crowd control.

Local radio stations will carry the NASA audio release as a public service. Broadcast information will be furnished to guests along with the vehicle pass and other handout material.



These other services have been arranged:

- a. The State Office Emergency Services (OES) will furnish three vans to be used as a Command Center for Traffic Control and Emergency agencies. These vans will be located north of Rosamond.
- b. Law enforcement agencies will have three helicopters available for emergency use during OFT for off-site locations.
- c. Various ambulance services for off-base have been arranged by law enforcement agencies.
- d. The California Air National Guard will provide first aid facilities on-base.
- e. Various off-base ambulance services will provide support on-base prior to and during landing.
- f. The Southern California Auto Club will provide tow trucks to move owner's disabled vehicles at owner's expense.

4.9

#### TOURS AND BRIEFINGS

If special guests desire it, a tour of the DFRF hangars complex can be scheduled. The Dryden Facility will be set up for self tours (open house style) during the day of Shuttle landing. Briefers will be available throughout the day at each aircraft to answer questions.

4.10

#### LANDING CONTINGENCY PLANS

- A. Postponement:  
Invitation and vehicle passes remain valid and are automatically extended for the rescheduled launch date.
- B. Emergency situation:  
Director of Protocol Operations will direct the evacuation of viewing sites in accordance with safety and security instructions provided in real time.

#### END OF MISSION AT WHITE SANDS MISSILE RANGE (WSMR)

There are no plans for a NASA guest operation at the White Sands Missile Range (WSMR) if that installation becomes the End of Mission (EOM) landing site. In that event, there is a possibility that weekend public access to view the Columbia at Cherry Site will be allowed. This plan would call for the use of WSMR buses with NASA providing the funds for gasoline and driver's wages. Portable toilets, water, crowd control fences and security would be required.

## **5.0 EDUCATION PLAN**

### **5.1 FOREWORD**

The primary purpose of the educational operation is to disseminate information relating to STS-3 and its payload in an educational format, as widely as possible to the educational community, and to build a sound educational base for future STS missions, payload activities, and their scientific enhancement.

In accomplishing this purpose NASA Academic Affairs Division will concentrate on new educational targets. These targets will include University Directors of Research and Research Liaison Officers between universities and NASA as well as educational groups and individuals who are not current users of or not aware of NASA educational services.

### **5.2 MAJOR OBJECTIVES**

NASA Academic Affairs Division in connection with STS will:

- Conduct a national conference for professional educators in connection with the STS-3 launch at the Kennedy Space Center;
- Conduct regional conferences for professional educators during the STS-3 mission at the Johnson Space Center and in connection with the STS-3 landing at the Jet Propulsion Laboratory;
- Provide educational activities and programs to make the educational community aware of the Space Transportation System, its potential, and its impact on students and teachers at all levels of the academic community;
- Provide resources to incorporate the Space Transportation System concepts and payload results into current curricula which are impacted by NASA;
- Develop new materials of instruction related to the Space Transportation System and its upcoming payloads;
- Use all current existing educational programs (Spacemobile, Aeronauticsmobile, university outreach programs, teacher workshops, etc.) to relate information on the Space Transportation System and its payloads.

### 5.3 MAJOR GOALS

The NASA Academic Affairs Division Education Plan for STS-3 was developed to accomplish the following educational goals:

- To provide students and teachers with guided experiences which will not only inform but help them understand STS-3 and its OSS-1 payload;
- To familiarize teachers with materials, resources, and teaching techniques needed for the effective introduction of the Space Transportation System.
- To encourage teachers to capitalize on the contemporary interest of children in the Space Transportation System;
- To stimulate the spirit of inquiry essential to the education process;
- To provide information on several facets of the STS and their relationship with educational concepts being taught in the classroom;
- To motivate teachers to use the information, experience, and materials acquired to enrich their classroom curricula;
- To familiarize Directors of Research at universities with regulations on submitting research proposals to NASA;
- To provide information for Directors of Research about current and future NASA programs as they relate to educational research.

This plan is divided into three parts: (1) those activities associated with STS-3 and its OSS-1 payload; (2) educational and curriculum materials to be developed for use during STS-3 and follow-on STS missions; and (3) utilization of current educational programs during the Shuttle era.

### 5.4 LAUNCH AND LANDING CONFERENCES

NASA Academic Affairs Division will conduct a national education conference for the STS-3 launch with two separate groups of invited guests. One group will be comprised of Directors of Research at universities and Research Liaison Officers between universities and NASA and the other group will be comprised of other distinguished educators from throughout the nation. The Center Educational Programs Officers (CEPO's) from KSC, MSC, and Larry Bilbrough, NASA Headquarters, will be the program

committee and will establish details and logistics of the conference for all NASA invited educators. The conference, in conjunction with launch, will be conducted T-1 at Rollins College, Winter Park, Florida. Ray Corey, CEO, KSC, is Chairman of the planning committee for launch programs.

A regional conference will be conducted one day after launch (T+1) at the Johnson Space Center. Jim Poindexter, JSC Educational Programs Officer, will be chairman of the planning committee. Educational participants will be invited primarily from the JSC regional area.

A regional Landing Conference will be conducted one day prior to landing at JPL. Garth Hull and B. Michael Donahoe, Education Officers at the Ames Research Center will be Conference Co-Chairmen, and will be assisted by Benito Casados, JPL. Educational participants will be invited primarily from the ARC regional area.

Categories of guests for conferences and viewing will include:

- Headquarters distinguished invitees - 200 total (4 buses)
- Educator groups with car or bus passes
- Student groups will receive car/bus passes. (It may be necessary to limit the number of these groups - student groups will view launch and landings only)

Each Center Educational Programs Officer:

- Will submit distinguished educator names to Bill Nixon, NASA Headquarters, for invitation to STS-3. Transportation limited to 200 educators for launch program (KSC).
- Will be responsible for identifying educator groups in his region coming to KSC for launch and coordinating with Ray Corey
- Will forward requests from educators for vehicle passes (car and bus) with recommendation to Bill Nixon for coordination with Protocol Office.

General student groups will be limited to the viewing opportunity and the activities at KSC-VIC which are available to the public.

The program planning committee will make all arrangements for one central educational conference program to be conducted at T-1 at Rollins College, Winter Park, Florida. They will also be responsible for arranging tour activities at KSC. These activities will be coordinated with the Center PAO 10 days in advance.

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Staffing for Educational Conferences will be assigned from Education Working Group Members, Center Educational Programs Officers, and Aerospace Education Specialists. Escorts for tours at KSC will be coordinated with the Protocol Office.

**5.4.1 EDUCATION CONFERENCE CONTENT**

The one day Education Conference is designed to give participants (1) in-depth knowledge of STS-3 mission; (2) in-depth knowledge of the OSS-1 payload; (3) future STS mission payloads; (4) knowledge and motivation to enrich educational curriculums with STS and payload concepts. Presentations will be made by knowledgeable NASA personnel in the following areas:

- Space Transportation System
- OSS-1 Payload
- STS-3 Mission Profile
- Upcoming STS Payload (Spacelab - Space Telescope)
- NASA Education Programs and Services
- NASA Space Shuttle Student Program
- Current NASA educational materials will be displayed, previewed and distributed

**5.5 CONTINGENCIES**

If launch is delayed or postponed three days in advance of schedule, conference will be rescheduled and night letter will be sent informing invited guests.

If launch is delayed or postponed after guests have arrived on site, conference will be held as scheduled.

If landing site is changed to White Sands, the regional landing conference will be cancelled.

**5.6 EDUCATIONAL RESOURCES**

**5.6.1 EDUCATIONAL PUBLICATIONS**

The NASA Facts publication, NF-127/3-81 The Shuttle Era will be the official publication for all educator guests. This publication will be distributed to all educator guests attending launch and landing. The pamphlet, EAM-132 Space Shuttle will be available for distribution in response to educational inquiries. Following STS-3, an

Educational Brief summarizing STS-3 and the OSS-1 payload will be published and distributed to educators on the mailing list and through Teacher Resource Rooms.

#### **5.6.2 BULLETINS**

A four-page bulletin will be distributed in response to educational inquiries following STS-3 mission. This bulletin will be result-oriented with preliminary engineering and scientific findings of the STS-3 mission and the OSS-1 payload. Headquarters Academic Affairs Division has the responsibility of writing, printing and distribution of this bulletin.

#### **5.6.3 LITHOGRAPHS**

Academic Affairs Division will produce a lithograph of the crew of STS-3 for distribution during the STS-3 mission. Lithographs of an STS launch and landing and Columbia's cockpit will be available for distribution during STS-3.

#### **5.6.4 TELEVISION-COMMUNICATION**

The Audio-Visual Education Committee, established under the Public Affairs STS-1 Plan, will continue to function evaluating onboard video and film of STS-3 and the OSS-1 payload for educational needs and possible incorporation as curriculum material. The committee has made contacts with PBS, Instructional TV, regional networks, state networks and individual ETV stations establishing an effective delivery system. The Audio-Visual Education Committee has developed an operation plan and will coordinate activities with the Telecommunications Working Group.

#### **5.6.5 AEROSPACE EDUCATION SERVICES PROJECT (SPACEMOBILE)**

Concepts relating to STS and its upcoming payloads are a focal point of the general AESP presentation during academic year '81-'82. Educational materials relating to STS-3 and the OSS-1 payload have been distributed to each specialist. The AESP Specialist will be responsible for the distribution of STS publications and curriculum materials to teachers and libraries in the schools they are visiting.

#### **5.6.6 TEACHER WORKSHOPS**

Materials and information concerning STS-3 and the OSS-1 payload will be emphasized in aerospace teacher workshops conducted in the 1981-1982 academic year. AESP specialists were made aware of existing STS and payload materials available to teachers.

#### 5.6.7 PLANETARIUM AND SCIENCE CENTERS

All current information relating to the STS-3 flight and the OSS-1 payload will be mailed to the 650 planetarium and science centers on the Headquarters mailing list.

#### 5.6.8 NASA REPORT TO EDUCATORS

A summary of the STS-3 mission will be published in the Summer 1982 issue. This quarterly report reaches up to 50,000 educators on the NASA mailing list.

#### 5.6.9 TEACHER RESOURCE ROOMS

As a service to teachers, curriculum supervisors, and others in related fields, the NASA Teacher Resource Rooms will provide an easily accessible source of materials on the STS for use in the classroom. The services offered are:

- Slide Library
- Slide Copier
- Film Library
- Audio Tape Library
- Record Library
- Reference Book Library
- Lesson Plan Collection
- Literature and Publications
- Film Strip and Slide Cassette Programs

Teacher Resource Rooms are in operation at LORC, MSFC, and ESC. Announcement of these services will be made in the NASA Report to Educators and by Spacemobile personnel in their daily encounters with educators.

#### 5.6.10 EDUCATIONAL EXHIBIT

An up-to-date exhibit displaying NASA Education Services available is scheduled at six national educational conventions in FY 82. A video tape informing participants of STS will be part of this exhibit and STS publications will be distributed by the NASA representatives at the exhibit booth.

## **5.7 INTERFACES AND STAFFING**

It is the responsibility of the chairperson of the Education Working Group to coordinate all educational activities with the chairperson of all other working groups. Each Center Educational Programs Officer will coordinate all education activities with the Center PAO. NASA installations that do not have a Center Educational Programs Officer (CEPO) will coordinate with the CEPO that has the regional responsibility.

### **5.7.1 STAFFING STS EDUCATIONAL ACTIVITIES**

Each Center Educational Programs Officer (CEPO) will be responsible for implementing all STS activities as outlined in their regional area.

Curtis Graves-Chairman-Deputy Director, Academic Affairs Division,  
NASA Headquarters

Garth Hull-ARC (Northern Region)  
Mike Donahoe-ARC (Southern Region)  
Elva Bailey-GSFC  
Ray Correy-KSC  
Harold Mehrens-LaRC  
James Poindexter-JSC  
R. Lynn Bondurant-LaRC  
Jimmy Pruitt-MSEC

#### **STAFFING STS-3 LAUNCH CONFERENCE - KSC**

Ray Correy - Chairman, KSC  
Jimmy Pruitt - MSFC  
William Nixon - Hdqs  
Larry Bilbrough - Hdqs  
Charles Carter - Hdqs  
Doris Goodwin - Hdqs  
Assisted by AESP Specialists as assigned

#### **STAFFING STS-3 REGIONAL CONFERENCE - JSC**

James Poindexter - Chairman, JSC  
William Nixon - Hdqs  
Assisted by AESP Specialists as assigned

#### **STAFFING STS-3 REGIONAL LANDING CONFERENCE - JPL**

B. Michael Donahoe - Co-Chairman, ARC  
Garth Hull - Co-Chairman, ARC  
Benito Casados - JPL  
Assisted by AESP Specialists as assigned



STAFFING AUDIO-VISUAL EDUCATION COMMITTEE

Jimmy Pruitt - Chairman, KSC  
James Poinexter - JSC  
John Bluck - LERC  
Alan Ludwig - HQ

5.8 SHUTTLE STUDENT INVOLVEMENT PROJECT FOR SECONDARY SCHOOLS

The Shuttle Student Involvement Project (SSIP) for Secondary Schools is a joint venture of NASA and the National Science Teachers Association and is designed to stimulate the study of science and technology in the nation's secondary schools. The first experiment will fly on STS-3.

The experiment, "Insects in Flight Motion Study," was devised by Todd E. Nelson, an 18 year old senior from Southland Public School, Adams, Minn., one of the ten finalists in the first national Space Shuttle Student Involvement Project.

All ten of the 1980-81 SSIP winners and their teacher-advisors will be the guests of NASA for "hands on" experience during the Shuttle post-flight payload retrieval activities and preparations for the fourth flight at the Kennedy Space Center, Fla. The students and teachers will participate in a workshop to include presentations by the principal investigators of the Space Science experiment package flown aboard the third Shuttle mission.

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APPENDIX A  
Public Affairs Plan for Non-OFT  
Aspects of STS-3

This appendix deals specifically with the public affairs plans for providing information prior, during and following the STS-3 mission on all payloads relating to science and applications flying aboard Columbia on its third Orbital Test Flight.

There are seven different elements to the payload complement on STS-3, none of which come under a larger "umbrella" organization. They are:

**OSS-1** This is a collection of Spacelab-type pallet mounted instruments. Although there is a general theme to the science on this pallet there are exceptions. In general the OSS-1 science concerns space plasma physics and solar physics. The Remote Manipulator System plays a heavy role in the execution of OSS-1 science experiments.

**MLR** This is the Monodisperse Latex Reactor built for reflight opportunities and which will test the potential of an on-orbit low gravity reactor (or cooker) to produce a solution of identically-sized micro latex spheres. This experiment has strong potential for immediate and practical applications in both biochemistry and chemical engineering.

**EMVT** This is the Electrophoresis Engineering Verification Test which is a reflight of the ASTP electrophoresis experiment. This is primarily a test of the capability of this particular technique (the electric field separation of constituents within a solution). The experiment did not work properly on the ASTP flight, but reasons for that have been determined. The reflight of this on STS-3 represents an additional opportunity to perform science. This has virtually nothing to do with the Continuous Flow Electrophoresis System which McDonnell Douglas will be flying aboard STS-4.

**IECM** This is the Induced Environment Contamination Monitor which was flown aboard STS-2 and which provided measurements of the outgassing and co-orbiting "pollution" associated with the orbiter.

**GAS** This is the first flight of and a test of the Get Away Special canister and orbiter interface. Although there are no experiments within the canister, there is instrumentation to establish the environment within the canister and to determine if the GAS interfaces properly with orbiter systems. This obviously has implications for all future GAS payloads, the first of which is scheduled on STS-4.

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**HET** This is a reflight of the Heflex Bioengineering Test which flew on STS-2 but which did not receive sufficient on-orbit time to produce scientific or engineering results. This experiment has implications for Spacelab 1 experiments since the results of this will be incorporated into Spacelab 1 flight requirements.

**SSIP** This is the first of the Shuttle Student Involvement Project experiments. The student is Todd Nelson from Minnesota and his experiment deals with flying insect adaptation to micro-gravity. He will be flying several insects with varying degrees of wing surface to body mass.

**PRE-FLIGHT ACTIVITIES**

**T-30 Day Briefing**  
Johnson Space Center, Houston

**February 25, 1982**

The Following briefings are scheduled at 10:00 am:

OSS-1 given by GSFC project official. Principal investigator(s) will be present for additional questions or interviews later.

MLR given by MSFC project official.

EEVT given by MSFC project official.

GAS given by GSFC project official (or JSC integration official).

SSIP given by student (Todd Nelson) or JSC integration official.

Material to supplement the briefing will be provided by the appropriate PAO office (JSC, MSFC, GSFC) and in the case of OSS-1 includes a video tape or orbit activities.

This will be released on the NASA Video Release System.

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**T-2 Day Briefing**  
Kennedy Space Center, Merritt Island

**March 20, 1982**

The following briefings are scheduled at 1:00 pm:

OSS-1 given by GSFC project official. Principal investigator(s) will be present for additional questions or interviews later.

MLR given by MSFC project official.

EEVT given by MSFC project official.

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GAS given by GSFC project official (or JSC integration official).

SSIP given by student (Todd Nelson) or JSC integration official.

Material to supplement the briefing will be provided by the appropriate PAC office (JSC, MSFC, GSFC) and in the case of OSS-1 includes a video tape of orbit activities.

This will be released on the NASA Video Release System.

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### FLIGHT ACTIVITIES

Daily during flight  
Johnson Space Center, Houston

March 22-28, 1982

Flight director change of shift briefings are expected to occur in the early to mid-morning and in the mid to late afternoon.

During the early afternoon, sometime between 12:30 pm and 1:30 pm, one or two principal investigators from the Payload Operations Control Center (POCC) will be available in the JSC small briefing room for an informal briefing session.

This session will allow the investigator (either the appropriate scientist/engineer/manager) to explain the reason for the experiment, what it consists of, what the implications are, what the science/engineering results will lead to.

The informal nature of this will allow a direct "one-on-one" (actually a "group-on-one") relationship between the media representative and the scientist. The intent is to sit the investigator in the audience and not to formalize this in any way.

Should circumstances warrant a wider distribution of the briefing contents, say in the event of a major discovery or equipment failure, the briefing can be scheduled for immediately following the nearest change-of-shift briefing.

This informal briefing will not be carried on the NASA Video Release System, audio will not be available either.

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POST FLIGHT ACTIVITIES

**Landing + 3-5 Days**

**April 1-4, 1982**

Goddard Space Flight Center, Greenbelt/  
Headquarters, Washington, DC

This briefing is tentatively scheduled immediately following landing and would pertain to the engineering results of the OSS-1 and other payloads.

The information which this briefing would provide can also be distributed by a post-landing written report distributed through the STS news centers.

The information, whether produced by briefing or status report, should be provided the JSC newsroom so that the crew can make use of the contents during their post-flight crew briefing, usually landing + 7-10 days.

**Landing + 30 Days**

**April 30, 1982**

Headquarters, Washington, DC

Quick look engineering and science briefing.  
Tentative schedule for this is:

- OSS-1 with mission manager or scientist.
- MSR with project official or PI.
- EEVT with project official or PI.
- GAS with project official.
- SSIP with student or project official.
- HBV with principal investigator

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**AUG 5 1986**

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